Section I

Instructions
For the following questions answer them individually

Question 1

Three children won prizes in the 'Tech India Quiz' contest. They are from three schools: Lancer, Columbus and Leelavati, which are located in different states. One of the children is named Binod. Lancer school's contestant did not come first. Leelavati school's contestant's name is Rahman. Columbus school is not located in Andhra Pradesh. The contestant from Maharashtra got third place and is not from Leelavati School. The contestant from Karnataka did not secure first position. Columbus school's contestant's name is not Badal. Which of the following statements is TRUE?

A 1 st prize: Rahman (Leelavati), 2 nd prize: Binod (Columbus), 3 rd prize: Badal (Lancer)

B 1 st prize: Binod (Columbus), 2 nd prize: Rahman (Leelavati), 3 rd prize: Badal (Lancer)

C 1 st prize: Badal (Lancer), 2 nd prize: Rahman (Leelavati), 3 rd prize: Binod (Columbus)

D 1 st prize: Binod (Columbus), 2 nd prize: Badal (Lancer), 3 rd prize: Rahman (Leelavati)

Answer: A

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Question 2

Mother Dairy sells milk packets in boxes of different sizes to its vendors. The vendors are charged Rs. 20 per packet up to 2000 packets in a box. Additions can be made only in a lot size of 200 packets. Each addition of one lot to the box results in a discount of one rupee an all the packets in the box. What should be the maximum size of the box that would maximize the revenue per box for Mother Dairy?

A 2400 packets

B 3000 packets

C 4000 packets

D None of the above

Answer: B

Explanation:
We are given that, The vendors are charged Rs. 20 per packet up to 2000 packets in a box. Additions can be made only in a lot size of 200 packets. Each addition of one lot to the box results in a discount of one rupee an all the packets in the box.
Let x be number of additional lots.
Thus,
$(20 - x)(2000 + 200x) = 40000 - 2000x + 4000x - 200x^2$
=> $-200x^2 + 2000x + 40000$
We need to maximize this
The minimum/maximum value of a quadratic equation is when $x = -b/2a$
Thus, the maximum value = $-2000/400 = 5$
Thus, the maximum size of the box that would maximize the revenue per box for Mother Dairy = 2000+200*5 = 3000

Question 3

All employees have to pass through three consecutive entrance doors to enter into the office and one security guard is deployed at each door. These security guards report to the manager about those who come to office after 10 AM. Ms. Rani is an employee of this office and came late on the annual day. In order to avoid report to the manager she had to pay each security guard half of the money she had in her purse and 2 rupees more besides. She found only one rupee with her at the end. How much money Ms. Rani had before entering the office on the annual day?

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A Rs. 40

B Rs. 36

C Rs. 25

D Rs. 42

Answer: B

Explanation:
Rani has 1 Rs with her.
Before meeting the third guard she must be having (1+2)*2 = 6 rs.
Before meeting the second guard she must be having (6+2)*2 = 16
Before meeting the first guard she must be having (16+2)*2 = 36
Thus, Ms. Rani had 36 Rs before entering the office on the annual day

Instructions

Answer the questions based on the following information. Director of an institute wants to distribute teaching assignments of HRM, Psychology, Development Studies, Trade policy and Finance to five of six newly appointed faculty members. Prof. Fotedar does not want any assignment if Prof. Das gets one of the five. Prof. Chaudhury desires either HRM or Finance or no assignment. Prof. Banik opines that if Prof. Das gets either Psychology or Trade Policy then she must get the other one. Prof. Eswar insists on an assignment if Prof. Acharya gets one.

Question 4

Which of the following is valid faculty - assignment combination if all the faculty preferences are considered?

A Prof. Acharya - HRM, Prof. Banik - Psychology, Prof. Chaudhury - Development studies, Prof. Das - Trade Policy, Prof. Eswar - Finance

B Prof. Chaudhury - HRM, Prof. Das - Psychology, Prof. Acharya - Development studies, Prof. Banik - Trade Policy, Prof. Eswar - Finance

C Prof. Acharya - HRM, Prof. Banik - Psychology, Prof. Eswar - Development studies, Prof. Das - Trade Policy, Prof. Fotedar - Finance

D Prof. Banik - HRM, Prof. Fotedar - Psychology, Prof. Eswar - Development studies, Prof. Chaudhuri - Trade Policy, Prof. Acharya - Finance

Answer: B

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Question 5

If Prof. Acharya gets HRM and Prof. Chaudhury gets Finance, then which of the following is not a correct faculty-assignment combination assuming all faculty preferences are considered?

A Prof. Das - Development Studies, Prof. Banik - Trade Policy

B Prof. Fotedar - Development Studies, Prof. Banik - Trade Policy

C Prof. Banik - Development Studies, Prof. Eswar - Trade Policy

D Prof. Banik - Development Studies, Prof. Das - Trade Policy

Answer: D

Instructions

Answer the questions based on the following information.

Five women decided to go for shopping to South Extension, New Delhi. They arrived at the designated me

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order: 1. Aradhana, 2. Chandrima, 3. Deepika, 4. Heena and 5. Sumitra. Each of them spent at least Rs. 1000. The woman who spent Rs. 2234 arrived before the woman who spent Rs. 1193. One of them spent Rs. 1340 and she was not Deepika. One woman spent Rs. 1378 more than Chandrima. One of them spent Rs. 2517 and she was not Aradhana. Heena spent more than Deepika. Sumitra spent the largest amount and Chandrima the smallest.

Question 6

What was the amount spent by Heena?

A Rs. 1193

B Rs. 1340

C Rs. 2234

D Rs. 2517

Answer: B

Question 7

Which of the following amount is spent by one of the women?

A Rs. 1139

B Rs. 1378

C Rs. 2571

D Rs. 2518

Answer: A

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Question 8

The lady who spent Rs. 1193 is:

A Aradhana

B Chandrima

C Deepika

D Heena

Answer: C

Instructions

Answer the questions based on the following information.

In a motor race competition certain rules are given for the participants to follow. To control direction and speed of the motorists, guards are placed at different signal points with caps of different colour. Guard with red cap indicates the direction of participant's movement and guards with green cap indicates the speed of the participant's movement. At any signal point presence of three guards, two guards and one guard with red cap means the participant must stop, turn left and turn right respectively. Signal points with three guards, two guards and one guard with green cap means the participants must move at 10, 4 and 2 km/hour respectively.

Kartikay, one of the participants, starts at a point where his car was heading towards north and he encountered signals as follows: at start point one guard with green cap; after half an hour two guards with red cap and two guards with green cap at first signal; after fifteen minutes one guard with red cap at second signal; after half an hour one guard with red cap and three guards with green caps at third signal; after 24 minutes two guard with red cap and two guards with green cap at fourth signal; after [illegible] red cap at fifth signal. (Time mentioned in each case is applicable after crossing the previous signal).

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Question 9

Total distance travelled by Kartikay from starting point till last signal is:

A 9 km

B 10 km

C 8 km

D 12 km

Answer: A

Question 10

What would be the final position of Kartikay if one guard with red cap and two guards with green caps were placed at the first signal point after the starting point?

A 3.0 km to the west and 2.0 km to the south

B 3.0 km to the west and 4.0 km to the north

C 5.0 km to the east and 4.0 km to the north

D 2.0 km to the west and 4.0 km to the south

Answer: A

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Question 11

If at the starting point Kartikay was heading towards south what would be his final position?

A 3.0 km to the east and 4.0 km to the south

B 5.0 km to the east and 4.0 km to the south

C 3.0 km to the west and 4.0 km to the south

D 5.0 km to the west and 2.0 km to the north

Answer: C

Instructions

Answer the questions based on the following information.

Mr. Mansingh has five sons – Arun, Mahi, Rohit, Nilesh and Saurav, and three daughters – Tamanna, Kuntala and Janaki. Three sons of Mr. Mansingh were born first followed by two daughters. Saurav is the eldest child and Janki is the youngest. Three of the children are studying at Trinity School and three are studying at St. Stefan. Tamanna and Rohit study at St. Stefan school. Kuntala, the eldest daughter, plays chess. Mansorover school offers cricket only, while Trinity school offers chess. Beside, these schools offer no other games. The children who are at Mansorover school have been born in succession. Mahi and Nilesh are cricketers while Arun plays football. Rohit who was born just before Janki, plays hockey.

Question 12

Arun is the _____ child of Mr. Mansingh.

A 2 nd

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B 3 rd

C 6 th

D 5 th

Answer: C

Explanation:
Let A, M, R, N, S, T, K and J represent Arun, Mahi, Rohit, Nilesh, Saurav, Tammana, Kuntala and Janaki.
Let us formulate the given information is a table form:-

Order of Age	Name	School	Game played
1			
2			
3			
4			
5			
6			
7			
8			

We are given that, Saurav is the eldest child and Janki is the youngest.
Thus, S is 1 and J is 8.
Rohit who was born just before Janki, plays hockey. Thus, Rohit is 7 and plays hockey.
Three sons of Mr. Mansingh were born first followed by two daughters.
Thus, 1,2,3 are sons and 4,5 are daughters.
Kuntala, the eldest daughter, plays chess.
Thus, Kunatala is 4 and plays chess.
The updated table is:-

Order of Age	Name	School	Game played
1	S		
2			
3			
4	K		Chess
5			
6			
7	R		Hockey
8	J		

Tamanna and Rohit study at St. Stefan school.
Mansorover school offers cricket only, while Trinity school offers chess.
Thus, Kuntala studies in Trinity.
Mahi and Nilesh are cricketers while Arun plays football
Thus, Mahi and Nilesh studies in Mansarovar.
we are given The children who are at Mansorover school have been born in succession and thus, Mahi and Nilesh are 2/3.
Thus, Tammana is 5 and Arun is 6.
Thus, the table is:-

T

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Order of Age	Name	School	Game played
1	S	Trinity	Chess
2	M/N	Mansorover	Cricket
3	N/M	Mansorover	Cricket
4	K	Trinity	Chess
5	T	Stefen	
6	A	Stefen	Football
7	R	Stefen	Hockey
8	J	Trinity	Chess

Arun is the sixth child of Mr. Mansingh.
Hence, option C is the correct answer.

Question 13

Saurav is a student of which school?

A Trinity

B St. Stefan

C Mansorover

D Cannot be determined

Answer: A

Explanation:
Let A, M, R, N, S, T, K and J represent Arun, Mahi, Rohit, Nilesh, Saurav, Tammana, Kuntala and Janaki.
Let us formulate the given information is a table form:-

Order of Age	Name	School	Game played
1			
2			
3			
4			
5			
6			
7			
8			

We are given that, Saurav is the eldest child and Janki is the youngest.
Thus, S is 1 and J is 8.
Rohit who was born just before Janki, plays hockey. Thus, Rohit is 7 and plays hockey.
Three sons of Mr. Mansingh were born first followed by two daughters.
Thus, 1,2,3 are sons and 4,5 are daughters.
Kuntala, the eldest daughter, plays chess.
Thus, Kunatala is 4 and plays chess.
The updated table is:-

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Order of Age	Name	School	Game played
1	S		
2			
3			
4	K		Chess
5			
6			
7	R		Hockey
8	J		

Tamanna and Rohit study at St. Stefan school.
Mansorover school offers cricket only, while Trinity school offers chess.
Thus, Kuntala studies in Trinity.
Mahi and Nilesh are cricketers while Arun plays football
Thus, Mahi and Nilesh studies in Mansarovar.
we are given The children who are at Mansorover school have been born in succession and thus, Mahi and Nilesh are 2/3.
Thus, Tammana is 5 and Arun is 6.
Thus, the table is:-

Order of Age	Name	School	Game played
1	S	Trinity	Chess
2	M/N	Mansorover	Cricket
3	N/M	Mansorover	Cricket
4	K	Trinity	Chess
5	T	Stefen	
6	A	Stefen	Football
7	R	Stefen	Hockey
8	J	Trinity	Chess

Thus, Saurav studies in Trinity.
Hence, option A is the correct answer.

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Question 14

What game does Tamanna play?

A Cricket

B Hockey

C Football

D Cannot be determined

Answer: D

Explanation:
Let A, M, R, N, S, T, K and J represent Arun, Mahi, Rohit, Nilesh, Saurav, Tammana, Kuntala and Janaki.

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Let us formulate the given information is a table form:-

Order of Age	Name	School	Game played
1			
2			
3			
4			
5			
6			
7			
8			

We are given that, Saurav is the eldest child and Janki is the youngest.
Thus, S is 1 and J is 8.
Rohit who was born just before Janki, plays hockey. Thus, Rohit is 7 and plays hockey.
Three sons of Mr. Mansingh were born first followed by two daughters.
Thus, 1,2,3 are sons and 4,5 are daughters.
Kuntala, the eldest daughter, plays chess.
Thus, Kunatala is 4 and plays chess.
The updated table is:-

Order of Age	Name	School	Game played
1	S		
2			
3			
4	K		Chess
5			
6			
7	R		Hockey
8	J		

Tamanna and Rohit study at St. Stefan school.
Mansorover school offers cricket only, while Trinity school offers chess.
Thus, Kuntala studies in Trinity.
Mahi and Nilesh are cricketers while Arun plays football
Thus, Mahi and Nilesh studies in Mansarovar.
we are given The children who are at Mansorover school have been born in succession and thus, Mahi and Nilesh are 2/3.
Thus, Tammana is 5 and Arun is 6.
Thus, the table is:-

T

Order of Age	Name	School	Game played
1	S	Trinity	Chess
2	M/N	Mansorover	Cricket
3	N/M	Mansorover	Cricket
4	K	Trinity	Chess
5	T	Stefen	
6	A	Stefen	Football
7	R	Stefen	Hockey
8	J	Trinity	Chess

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Thus, we cannot determine what game tammana plays.
Hence, option D is the correct answer.

Question 15

Which of the following pairs was not born in succession (ignore the order)?

A Mahi and Nilesh

B Kuntala and Arun

C Rohit and Janki

D Arun and Rohit

Answer: B

Explanation:

Let A, M, R, N, S, T, K and J represent Arun, Mahi, Rohit, Nilesh, Saurav, Tammana, Kuntala and Janaki.
Let us formulate the given information is a table form:-

Order of Age	Name	School	Game played
1			
2			
3			
4			
5			
6			
7			
8			

We are given that, Saurav is the eldest child and Janki is the youngest.
Thus, S is 1 and J is 8.
Rohit who was born just before Janki, plays hockey. Thus, Rohit is 7 and plays hockey.
Three sons of Mr. Mansingh were born first followed by two daughters.
Thus, 1,2,3 are sons and 4,5 are daughters.
Kuntala, the eldest daughter, plays chess.
Thus, Kunatala is 4 and plays chess.
The updated table is:-

Order of Age	Name	School	Game played
1	S		
2			
3			
4	K		Chess
5			
6			
7	R		Hockey
8	J		

Tamanna and Rohit study at St. Stefan school.
Mansorover school offers cricket only, while Trinity school offers chess.
Thus, Kuntala studies in Trinity.
Mahi and Nilesh are cricketers while Arun plays football
Thus, Mahi and Nilesh studies in Mansarovar.
we are given The children who are at Mansorover school have been born in succession and thus, Mahi an

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Thus, Tammana is 5 and Arun is 6.
Thus, the table is:-

Order of Age	Name	School	Game played
1	S	Trinity	Chess
2	M/N	Mansorover	Cricket
3	N/M	Mansorover	Cricket
4	K	Trinity	Chess
5	T	Stefen	
6	A	Stefen	Football
7	R	Stefen	Hockey
8	J	Trinity	Chess

Thus, Kuntala and Arun are not born in succession
Hence, option B is the correct answer.

Instructions

Answer the questions based on the following information.

In each question below three statements (I, II, III) are given followed by four conclusions numbered 1, 2, 3 and 4. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Choose the correct options (A & D) presented below.

Question 16

Statements:
I. Some drivers are technicians
II. All technicians are engineers
III. Some engineers are lecturers
Conclusions:
1. Some technicians are lecturers
2. Some lecturers are drivers
3. All engineers are technicians
4. Some engineers are drivers

A Only 3 follows

B Only 4 follows

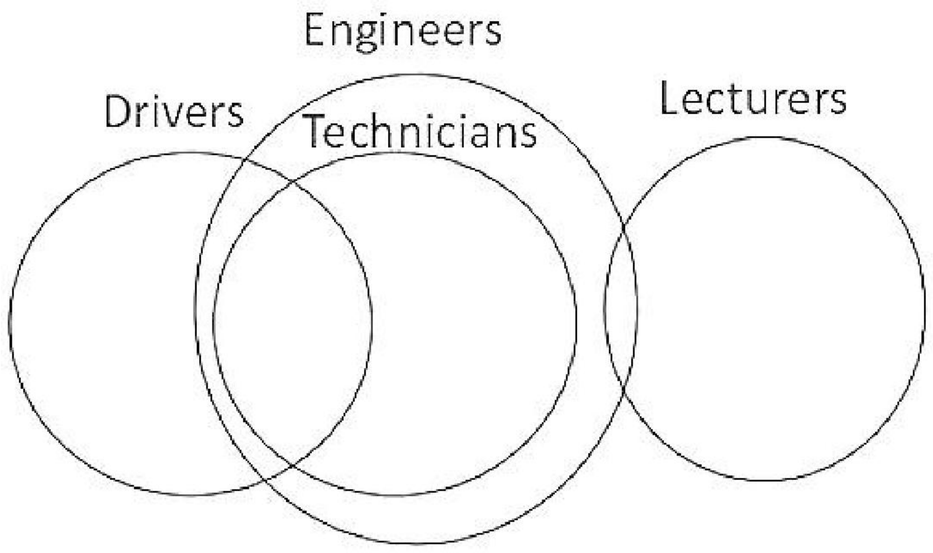
C Only 3 and 4 follows

D None of the above

Answer: B

Explanation:
The given condition is as shown below:-

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From this we can see that only conclusion 4 follows.
Hence, option B is the correct answer.

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Question 17

Statements:
I. Some barbers are fashion designers
II. No fashion designers are businessmen
III. Some businessmen are traders
Conclusions:
1. No Fashion designers are traders
2. Some traders are not fashion designers
3. Some fashion designers are traders
4. Some barbers are not businessmen

A Either 1, 2 and 4 or 3, 2 and 4 follow

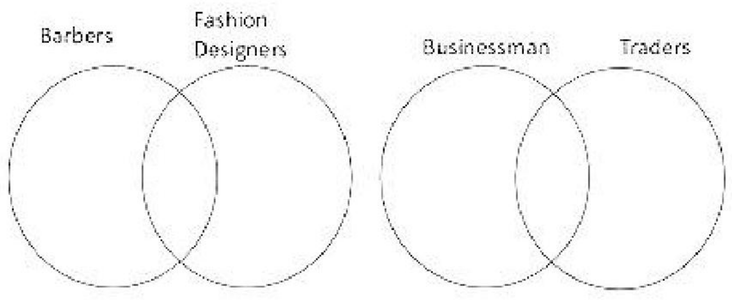
B Either 1 and 4 or 3 and 4 follow

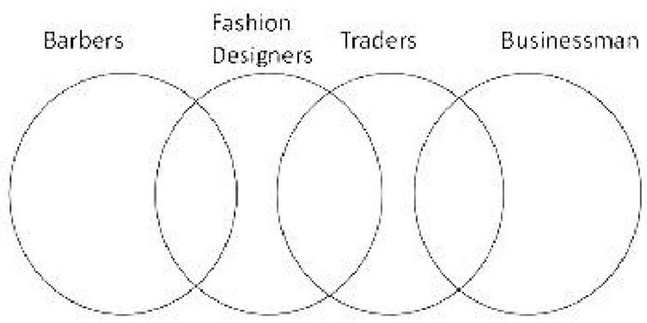
C Either 1 and 2 or 3 and 2 follow

D None of the above

Answer: D

Explanation:
The given situation is:





From this we can see either No Fashion designers are traders or Some fashion designers are traders.
As some barbers are Fashion designers thus, some barbers are not businessman.
As some traders are Businessman thus, some traders are not Fashion designers.

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Hence, Either 1 or 3 and 2 and 4 follows.
Hence, option D is the correct answer.

Instructions

For the following questions answer them individually

Question 18

Pointing to Priya, father of Pritu says, "She is the daughter of the daughter of the wife of the only child of the grandfather of my sister." How is Sushma related to Priya if Sushma is the sister of Pritu?

A Mother

B Aunt

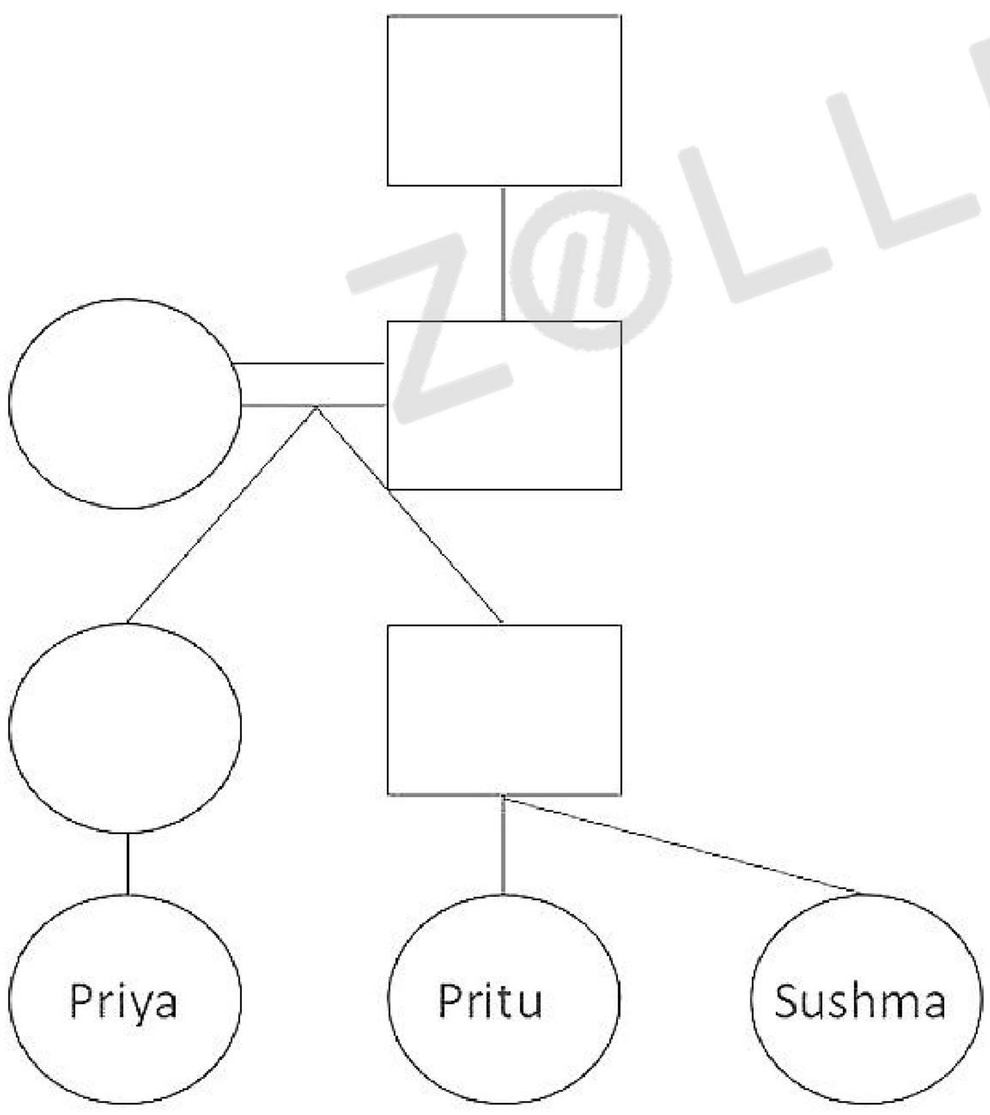
C Niece

D None of the above

Answer: D

Explanation:

The given family tree is as shown below:-



Thus, Sushma is the cousin of Priya.
Hence, option D is the correct answer.

Instructions

Answer the questions based on the following information. To get admission in a management course at Dadhichi Institute of Management (DIM) following criteria are given. A candidate must:
1. be a graduate from a recognized university with minimum 54 percent marks.
2. not be more than 33 years of age as on 1.4.2008.
3. have secured 60 percent or more marks in the entrance test.
4. pay one-time deposit fee of Rs. 2,00,000 at time of admission.
5. pay tuition fee of Rs.4,000 per month.

Any candidate who fails to fulfill the condition (4) at above, he/she may be referred to the chairman-admission.

Any candidate who has scored 80 percent mark in the entrance test but does not fulfill the condition (1) a

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referred to the director. Any candidate having work experience of at least 10 years in supervisory cadre and does not satisfy the condition (2) at above, he/she may be admitted under sponsored quota.

Given the above information and condition in each of the following questions, you have to decide which of the following course of action should be taken. You should not assume anything in case of any of the candidates. Mark answer
I. if the candidate is admitted
II. if the candidate is not admitted
III. if the candidate is referred to the director
IV. if the candidate is referred to the chairman- admission
V. if the candidate is admitted under sponsor quota

Question 19

Kamaljeet secured 60 percent marks in graduation and was born on 15th April 1976. He scored 56 percent marks in the entrance test. He can pay one-time deposit of Rs. 2,00,000 and monthly tuition fee of Rs. 4,000.

A I

B II

C III

D IV

Answer: B

Explanation:
The given conditions are:-

1. be a graduate from a recognized university with minimum 54 percent marks.
2. not be more than 33 years of age as on 1.4.2008.
3. have secured 60 percent or more marks in the entrance test.
4. pay one-time deposit fee of Rs. 2,00,000 at time of admission.
5. pay tuition fee of Rs.4,000 per month.

We are given that:-

Kamaljeet secured 60 percent marks in graduation and was born on 15th April 1976. He scored 56 percent marks in the entrance test. He can pay one-time deposit of Rs. 2,00,000 and monthly tuition fee of Rs. 4,000.
Thus, Kamaljeet fulfills all the conditions except condition 3.
As there is no other alternative to condition 3, thus, Kamaljeet cannot be admitted.
Hence, option B is the correct answer.

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Question 20

Gourav is a first-class science graduate who obtained 81 percent marks in the entrance test. He has 12 years of work experience in supervisory cadre. He can pay the stipulated one- time deposit and monthly tuition fees. His date of birth is 20th October, 1970.

A I

B IV

C III

D V

Answer: D

Explanation:
The given conditions are:-

1. be a graduate from a recognized university with minimum 54 percent marks.

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2. not be more than 33 years of age as on 1.4.2008.
3. have secured 60 percent or more marks in the entrance test.
4. pay one-time deposit fee of Rs. 2,00,000 at time of admission.
5. pay tuition fee of Rs.4,000 per month.
We are given that:-

Gourav is a first-class science graduate who obtained 81 percent marks in the entrance test. He has 12 years of work experience in supervisory cadre. He can pay the stipulated one- time deposit and monthly tuition fees. His date of birth is 20th October, 1970.

Thus, Gourav fulfills all the conditions except (2) and thus, he may be admitted under sponsored quota.
Hence, option D is the correct answer.

Instructions

Read the following information and answer the questions given below it.

For selection of films produced before December 2007 for the national film festival of India, following criteria are given.
1. The film must be submitted to the National Film Development Corporation (NFDC) by 31.10.2007.
2. The production cost of the film should not exceed Rupees Five crores.
3. The director of the film should have passed a three year course either from the Film and Television Institute of India (FTII) or from Satyajit Ray Film & Television Institute.
4. The length of the film should not exceed 150 minutes.
5. The film must have been approved by the film censor board of India.
6. However, if the film fulfils all the above criteria except
(a) criteria 2 above, it must be sent to the finance secretary
(b) criteria 3 above, the director has done at least a one year course from FTII or Satyajit Ray Film & Television Institute, the film is kept as a stand-bye

On the basis of above information and information provided below, decide the course of action in each case. No further information is available. You are not to assume anything.
Mark answer:
I.if the film is to be selected
II.if the film is not to be selected
III.if the film should be sent to the finance secretary
IV.if the film should be kept as a stand-bye
V.if the data given about the film are not adequate to make a decision.

Question 21

Film Dainandini was produced at the cost of Rupees 2.5 crore. It was submitted to the NFDC on 29th September 2007. The director of the film Govind Chadha passed a 3-year course from FTII. Length of film was 120 minutes and has been approved by the censor board of India.

A I

B II

C IV

D V

Answer: A

Explanation:
The given conditions are:-

1. The film must be submitted to the National Film Development Corporation (NFDC) by 31.10.2007.
2. The production cost of the film should not exceed Rupees Five crores.
3. The director of the film should have passed a three year course either from the Film and Television Institute of India (FTII) or from Satyajit Ray Film & Television Institute.
4. The length of the film should not exceed 150 minutes.
5. The film must have been approved by the film censor board of India.
We are given that:-

Film Dainandini was produced at the cost of Rupees 2.5 crore(thus fulfills 2). It was submitted to the NFD

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2007(thus, fulfills 1). The director of the film Govind Chadha passed a 3-year course from FTII(thus fulfills 3). Length of film was 120 minutes(thus fulfills 4) and has been approved by the censor board of India(thus fulfills 5)
Hence, as the given film fulfills all the conditions it has to be selected.
Hence, option A is the correct answer.

Question 22

Bhadrasalam is a 135-minute film directed by Katyani, who was a student of Satyajit Ray Film & Television Institute from 1996 to 1999. The cost of producing the film was Rupees 2.3 crore and it was submitted to NFDC on 24th July 2007. The film has been approved by the censor board of India.

A I

B V

C III

D IV

Answer: B

Explanation:
The given conditions are:-

1. The film must be submitted to the National Film Development Corporation (NFDC) by 31.10.2007.
2. The production cost of the film should not exceed Rupees Five crores.
3. The director of the film should have passed a three year course either from the Film and Television Institute of India (FTII) or from Satyajit
Ray Film & Television Institute.
4. The length of the film should not exceed 150 minutes.
5. The film must have been approved by the film censor board of India.
We are told that,

Bhadrasalam is a 135-minute film directed(thus fulfills 4) by Katyani, who was a student of Satyajit Ray Film & Television Institute from 1996 to 1999(3 may or not be fulfilled). The cost of producing the film was Rupees 2.3 crore(thus, 2 is fulfilled) and it was submitted to NFDC on 24th July 2007(thus, fulfilling 1). The film has been approved by the censor board of India(thus it fulfills 5).
Thus, as we are not sure about 3, we cannot make any decision.
Hence, option B is the correct answer.

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Question 23

Rakesh Mohan, the director of film Ek Bar Achanak, has successfully completed a 2-years course at Satyajit Ray Film & Television Institute. The 150-minute film was produced at rupees 4.85 crore. It has approved by the censor board of India and submitted to NFDC on 30th Nov. 2007.

A I

B III

C IV

D II

Answer: D

Explanation:
The first condition is:-
The film must be submitted to the National Film Development Corporation (NFDC) by 31.10.2007
The given film was approved by the censor board of India and submitted to NFDC on 30th Nov. 2007.

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Thus, the given film does not fulfill condition 1 and as there is no alternative to condition 1, thus, the given film should not be selected.
Hence, option D is the correct answer.

Instructions

Answer the questions based on the following information.

A number arrangement machine, when given a particular input, rearranges it following a particular rule. Illustrations of the input and the steps of arrangement is given below.
Input: 245, 316, 436, 519, 868, 710, 689
Step 1: 710, 316, 436, 519, 868, 245, 689
Step 2: 710, 316, 245, 519, 868, 436, 689
Step 3: 710, 316, 245, 436, 868, 519, 689
Step 4: 710, 316, 245, 436, 519, 868, 689
Step 4 is the last step for the given input

Question 24

If the input is given as "655, 436, 764, 799, 977, 572, 333", which of the following step will be "333, 436, 572, 655, 977, 764, 799"?

A Step Third

B Step Second

C Step Fourth

D None of the above

Answer: A

Explanation:
The machine is arranging the numbers in the increasing order of the sum of the digits on the number.

Input: 245 (11), 316 (10), 436 (13), 519 (15), 868 (22), 710 (8), 689 (23).

The number in the bracket indicates the sum of digits of the given number.

Step 1: 710 (8), 316 (10), 436 (13), 519 (15), 868 (22), 245 (11), 689 (23).

∴ The machine has swapped 710 (8) with 245 (11).

Step 2: 710 (8), 316 (10), 245 (11), 519 (15), 868 (22), 436 (13), 689 (23).

Thus it has swapped 436 (13) with 245 (11).

Step 3: 710 (8), 316 (10), 245 (11), 436 (13), 868 (22), 519 (15), 689 (23).

Thus it has swapped 436 (13) with 519 (15).

Step 4: 710 (8), 316 (10), 245 (11), 436 (13), 519 (15), 868 (22), 689 (23).

Thus it has swapped 519 (15) with 868 (22).

Going by the logic mentioned above,

Input: 655 (16), 436 (13), 764 (17), 799 (25), 977 (23), 572 (14), 333 (9).

Step 1: 333 (9), 436 (13), 764 (17), 799 (25), 977 (23), 572 (14), 655 (16).

Step 2: 333 (9), 436 (13), 572 (14), 799 (25), 977 (23), 764 (17), 655 (16).

Step 3: 333 (9), 436 (13), 572 (14), 655 (16), 977 (23), 764 (17), 799 (25).

This is the required sequence which is achieved in Step 3.

Hence, option A is the correct answer.

Question 25

How many steps will be required to get the final output from the following input?
Input: 544, 653, 325, 688, 461, 231, 857

A 6

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B 5

C 4

D None of these

Answer: B

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Question 26

Step third for an input is "432, 433, 542, 666, 734, 355, 574" What will be the first step for the input?

A 666, 542, 432, 734, 433, 574, 355

B 542, 666, 734, 432, 433, 574, 355

C 355, 574, 433, 432, 734, 666, 542

D Cannot be determined

Answer: D

Explanation:
The machine is arranging the numbers in the increasing order of the sum of the digits on the number.

Input: 245 (11), 316 (10), 436 (13), 519 (15), 868 (22), 710 (8), 689 (23).

The number in the bracket indicates the sum of digits of the given number.

Step 1: 710 (8), 316 (10), 436 (13), 519 (15), 868 (22), 245 (11), 689 (23).

∴ The machine has swapped 710 (8) with 245 (11).

Step 2: 710 (8), 316 (10), 245 (11), 519 (15), 868 (22), 436 (13), 689 (23).

Thus it has swapped 436 (13) with 245 (11).

Step 3: 710 (8), 316 (10), 245 (11), 436 (13), 868 (22), 519 (15), 689 (23).

Thus it has swapped 436 (13) with 519 (15).

Step 4: 710 (8), 316 (10), 245 (11), 436 (13), 519 (15), 868 (22), 689 (23).

Thus it has swapped 519 (15) with 868 (22).

We are given the result obtained in step 3rd. We can't go backward as there is no logic for processing backward. Hence, option D is the correct answer.

Question 27

What will be the third step for the following input?
Input: 653, 963, 754, 345, 364, 861, 541

A 541, 345, 754, 963, 364, 816, 653

B 541, 345, 364, 653, 963, 754, 861

C 541, 345, 364, 963, 754, 861, 653

D 541, 345, 364, 653, 861, 754, 963

Answer: C

Instructions

Answer the questions based on the following information.

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A word arrangement machine, when given a particular input, rearranges it following a particular rule. Following is the illustration of the input and the steps of arrangement:
Input: She was interested in doing art film
Step 1: art she was interested in doing film
Step 2: art was she interested in doing film
Step 3: art was in she interested doing film
Step 4: art was in film she interested doing
Step 5: art was in film doing she interested
Step 5 is the last step of the given input. Now study the logic and rules followed in the above steps, find out appropriate step for the question given below for the given input.

Question 28

Which of the following will be the last step for the input given below?
Input: he is going out to search air

A out is air to going search he

B out is air to search going he

C search he out is air to going

D None of the above

Answer: B

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Question 29

If step 2 of an input is "not is the casino considering legal action", which step is: "not is casino action legal the considering"?

A Step: 3

B Step: 6

C Step: 4

D None of the above

Answer: D

Question 30

How many steps will be required to get the final output from the following input?
Input: Father needs to check on the boy

A Four

B Five

C Six

D None of the above

Answer: D

Instructions
For the following questions answer them individually

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Question 31

Among Anil, Bibek, Charu, Debu, and Eswar, Eswar is taller than Debu but not as fat as Debu. Charu is taller than Anil but shorter than Bibek. Anil is fatter than Debu but not as fat as Bibek. Eswar is thinner than Charu, who is thinner than Debu. Eswar is shorter than Anil. Who is the thinnest person?

A Bibek

B Charu

C Debu

D Eswar

Answer: D

Explanation:
The question asks for the thinnest person. Therefore, let us arrange the persons in the decreasing order of their weight.

Eswar is not as fat as Debu.
Therefore, Debu > Eswar.

Anil is fatter than Debu but not as fat as Bibek.
Bibek > Anil > Debu > Eswar.

Eswar is thinner than Charu, who is thinner than Debu

Bibek > Anil > Debu > Charu > Eswar.

Therefore, Eswar is the thinnest among the five persons and hence, option D is the right answer.

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Question 32

Pointing to a photograph Yuvraj says, "He is the only brother of the only daughter of my sister's maternal grandmother." Pointing to another photograph Sourav says, "he is the only brother of the only daughter of my sister's maternal grandmother." If among the two photographs,one was either of Sourav or Yuvraj, and the photograph, towards which Yuvraj was pointing,was not of Sourav, then how is Yuvraj related to Sourav?

A Paternal uncle

B Maternal uncle

C Grandfather

D None of the above

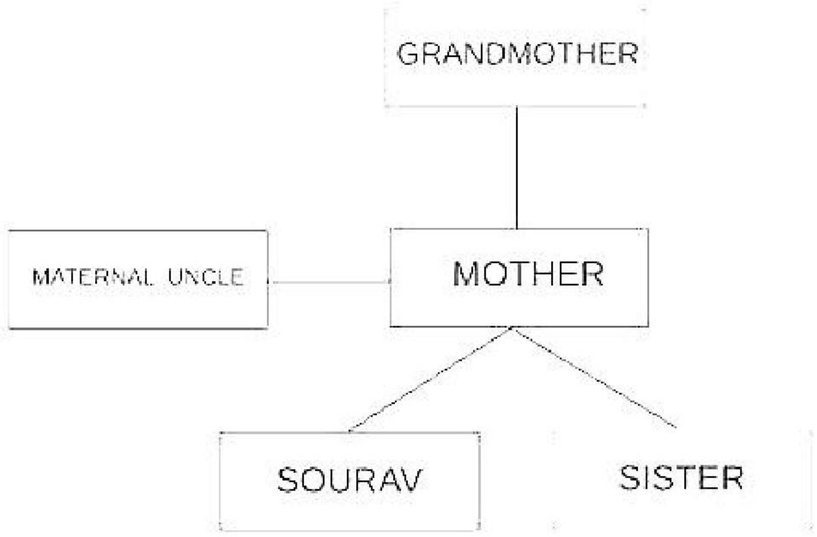
Answer: B

Explanation:
"only brother of the only daughter of my sister's maternal grandmother"

The daughter of my sister's maternal grandmother is sister's mother. Mother's brother is maternal uncle of the person.

If Yuvraj is not pointing towards saurav then Saurav is pointing towards Yuvraj.
Thus, Yuvraj is the maternal uncle of Saurav.

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Hence, option C is the correct answer.

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Section II

Instructions

For the following questions answer them individually

Question 33

DSBO Company produces Z units of output at a total cost of Rs. R, where $R = \frac{1}{10}Z^3 - 5Z^2 + 10Z - 5$ At what level of output will the average variable cost attain its minimum?

A 20

B 33

C 25

D None of the above

Answer: C

Explanation:

Z is the number of items produced by the company.

Total cost, $R = \frac{1}{10}Z^3 - 5Z^2 + 10Z + 5$

As we can see, the term '5' does not vary with the number of quantities produced. Therefore, 5 is the fixed cost.

Variable cost = $\frac{1}{10}Z^3 - 5Z^2 + 10Z$

Average variable cost = Total variable cost/ number of quantities.

Average variable cost = $\frac{1}{10}Z^2 - 5Z + 10$

$= \frac{Z^2 - 50Z + 100}{10}$

$= \frac{(Z^2 - 50Z + 625) - 525}{10}$

$= \frac{(Z - 25)^2 - 525}{10}$

As we can see, the least value of the expression will be obtained at $Z = 25$

Therefore, option C is the right answer.

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Question 34

If H_1 , H_2 , H_3 , ..., H_n , are 'n' Harmonic means between 'a' and 'b' ($\neq$ a), then value of $\frac{H_1 + a}{H_1 - a} + \frac{H_n + b}{H_n - b}$ is equal to

A n+1

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B 2n

C 2n+3

D n-1

Answer: B

Explanation:
Let us assume that n = 3 and a, b = 2, 6.

Therefore, the harmonic sequence will be: 2, H_1, H_2, H_3, 6

Hence, $H_2 = \frac{2*2*6}{2+6} = 3$

$H_1 = \frac{2*2*3}{2+3} = \frac{12}{5} = 2.4$

$H_3 = \frac{2*3*6}{3+6} = 4$

Therefore, $\frac{H_1+a}{H_1-a} = \frac{H_n+b}{H_n-b}$

$\frac{2.4+2}{2.4-2} = \frac{4+6}{4-6}$

$\Rightarrow 11 - 5 = 6.$

Option B: 2n = 2*3 = 6.

Question 35

If $(n+2)C_8 : (n-2)P_4 = 57 : 16$, then n =

A 20

B 22

C 15

D None of the above

Answer: D

Explanation:
$(n+2)C_8 : (n-2)P_4 = 57 : 16$

$\frac{8! * (n-6)!}{(n+2)!} : \frac{(n-2)!}{(n-6)!} = \frac{57}{16}$

$\Rightarrow \frac{(n+2)(n+1)(n)(n-1)}{8!} = \frac{57}{16}$

$\Rightarrow (n+2)(n+1)(n)(n-1) = 57 * 2520$

$\Rightarrow (n+2)(n+1)(n)(n-1) = 21 * 20 * 19 * 18$

Therefore, n = 19.

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Question 36

Suppose a, b and c are in Arithmetic Progression and a^2, b^2 and c^2 are in Geometric Progression. If $a < b < c$ and a+b+c=$\frac{3}{2}$,, then the value of a=

A $\frac{1}{2\sqrt{2}}$

B $\frac{1}{2\sqrt{3}}$

C $\frac{1}{2} - \frac{1}{\sqrt{3}}$

D $\frac{1}{2} - \frac{1}{\sqrt{2}}$

Answer: D

Explanation:
Let us assume that the common difference of the A.P. is 'd'.

Then, we can say that a = b - d, c = b + d

It is given that a + b + c = 3/2. i.e. b = 1/2.

It is given that a^2, b^2 and c^2 are in Geometric Progression. Hence, we can say that

$b^4 = a^2 * c^2$

$b^4 = (b-d)^2 * (b+d)^2$

$b^4 = (b^2 - d^2)^2$

$\Rightarrow (b^2 - d^2 - b^2)(b^2 - d^2 + b^2) = 0$

Therefore, $(b^2 - d^2 + b^2) = 0$. i.e. $d = \frac{1}{\sqrt{2}}$

Hence, a = b - d = $\frac{1}{2} - \frac{1}{\sqrt{2}}$.

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Question 37

If three positive real numbers a, b and c (c > a) are in Harmonic Progression, then log (a + c) + log (a - 2b + c) is equal to:

A 2 log (c - b)

B 2 log (a - c)

C 2 log (c - a)

D log a + log b + log c

Answer: C

Explanation:
It has been given that the terms a, b, and c are in harmonic progression.

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Therefore, $\frac{1}{b} = \frac{1}{a} + \frac{1}{c} = \frac{1}{b}$

$\frac{2}{b} = \frac{1}{a} + \frac{1}{c}$

$\frac{2}{b} = \frac{a+c}{ac}$

$b = \frac{2ac}{(a+c)}$----------(1)

The given expression is log $(a+c)$ + log $(a-2b+c)$.

log $(a+c) - log(a-2b-c)$ = log $((a+c)(a-2b-c))$

Substituting (1), we get,

log $(a+c)$ + log $(a-2b+c)$ = log$((a-c)(a-\frac{4ac}{(a+c)}+c))$

= log $(a^2+ac-4ac+c^2-ac)$

= log (a^2+c^2-2ac)

= log $(c-a)^2$ [Since c is greater than a]

= 2 log $(c-a)$

Therefore, option C is the right answer.

Question 38

Sum of the series $1^2-2^2+3^2-4^2+...+2001^2-2002^2-2003^2$ is:

A 2007006

B 1005004

C 200506

D None of the above

Answer: A

Explanation:

The given series is $1^2-2^2+3^2-4^2+.....-2003^2$

1^2-2^2 can be written as $(1+2)(1-2) = 3*(-1) = -3$

3^2-4^2 can be written as $(3+4)*(3-4) = 7*(-1) = -7$

5^2-6^2 can be written as $(5+6)*(5-6) = 11*(-1) = -11$

Therefore, all the terms till 2002^2 can be expressed as an AP.

The last term of the AP will be $(2001+2002)(2001-2002) = -4003$

Therefore, the given expression is reduced to $-3-7...-4003-2003^2$

Let is evaluate the value of $-3-7...-4003$

Number of terms, $n = \frac{4003-3}{4} - 1 = 1001$

Sum = $\frac{n}{2}$*(first term + last term)

= $\frac{1001}{2} * (-4006)$

= 2005003

$2003^2 = 4012009$

Value of the given expression = $4012009-2005003 = 2007006$.

Therefore, option A is the right answer.

Question 39

The number of ways in which a mixed double tennis game can be arranged amongst 9 married couples if no husband and wife play in the same game is:

A 1514

B 1512

C 3024

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D None of the above

Answer: B

Explanation:
There are 9 married couples. Therefore, there will be 9 men and 9 women.
First, let us select the 2 men.
2 men can be selected in 9C2 = 36 ways.

Now, the wives of these 2 men cannot be selected. Therefore, we have to select 2 women from the remaining 7 women.
2 women can be selected in 7C2 = 21 ways.

We have selected 2 men and 2 women. A team should consist of one man and one woman. Therefore, the 2 teams can be formed in 2 ways.

Therefore, the total number of ways in which the team can be selected is 36*21*2 = 1512.
Therefore, option B is the right answer.

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Question 40

The interior angles of a polygon are in Arithmetic Progression. If the smallest angle is 120° and common difference is 5°, then number of sides in the polygon is:

A 7

B 8

C 9

D None of the above

Answer: C

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Explanation:
It has been given that the interior angles in a polygon are in an arithmetic progression.
We know that the sum of all exterior angles of a polygon is 360°.
Exterior angle = 180° - interior angle.
Since we are subtracting the interior angles from a constant, the exterior angles will also be in an AP.
The starting term of the AP formed by the exterior angles will be 180°-120° = 60° and the common difference will be -5°.

Let the number of sides in the polygon be 'n'.
=> The number of terms in the series will also be 'n'.

We know that the sum of an AP is equal to 0.5*n*(2a + (n-1)d), where 'a' is the starting term and 'd' is the common difference.
0.5*n*(2*60° + (n-1)*(-5°)) = 360°
$120n - 5n^2 + 5n = 720$
$5n^2 - 125n + 720 = 0$
$n^2 - 25n + 144 = 0$.
$(n-9)(n-16) = 0$

Therefore, n can be 9 or 16.
If the number of sides is 16, then the largest external angle will be 60 - 15*5 = -15°. Therefore, we can eliminate this case.
The number of sides in the polygon must be 9. Therefore, option C is the right answer.

Question 41

A ladder 25 metres long is placed against a wall with its foot 7 metres away from the foot of the wall. How far should the foot be drawn out so that the top of the ladder may come down by half the distance of the total distance if the f

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A 6 metres

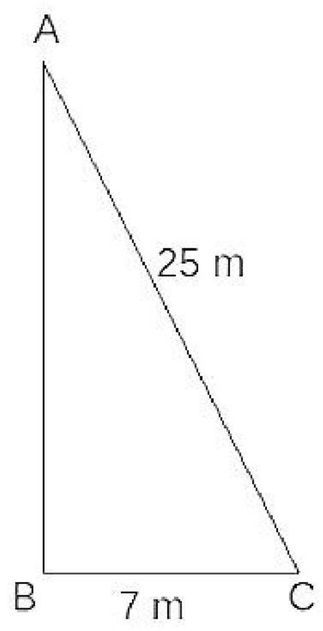
B 8 metres

C 8.75 metres

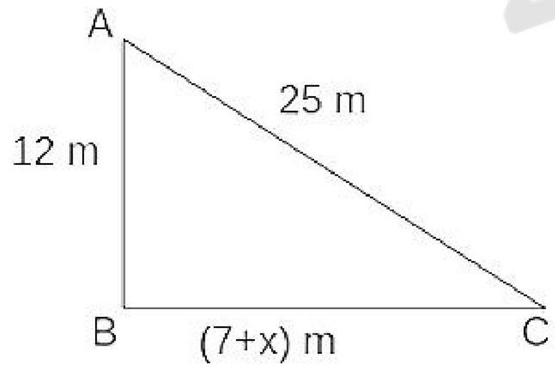
D None of the above

Answer: D

Explanation:



Distance between the top of ladder and foot of wall = $\sqrt{25^2 \quad 7^2}$ = 24 m. Let us assume that C is moved by a distance x m.



Using, Pythagoras theorem we can say that, 25^2 = 12^2 + (7+x)^2 => x = $\sqrt{481}$ - 7 = 14.93 m.

Question 42

$$2 \quad \sqrt{6\,407\,522\,209} \; \sqrt{360\,840\,049} \; —$$

A 0.666039

B 0.666029

C 0.666009

D None of the above

Answer: A

Explanation:

$$2 \quad \sqrt{6\,407\,522\,209} \; \sqrt{360\,840\,049} \; — \; 2 \quad \frac{80\,047}{60\,007}$$

$$= 2 - 1.3339610$$

$$- 0.666039$$

Therefore, option A is the right answer.

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Question 43

If the positive real numbers a, b and c are in Arithmetic Progression, such that abc = 4, then minimum possible value of b is:

A $2^{\frac{3}{2}}$

B $2^{\frac{2}{3}}$

C 2^{3}

D None of the above

Answer: B

Explanation:

It has been given that a, b, and c are in an arithmetic progression.

Let a = x-p, b = x, and c = x+p

We know that a, b, and c are real numbers.

Therefore, the arithmetic mean of a,b,c should be greater than or equal to the geometric mean.

$\frac{a+b+c}{3} \geq \sqrt[3]{abc}$

$\frac{a+b+c}{3} \geq \sqrt[3]{4}$

$\frac{3x}{3} \geq \sqrt[3]{4}$

$x \geq \sqrt[3]{4}$

We know that $x = b$.

Therefore, $b \geq \sqrt[3]{4}$ or $b \geq 2^{\frac{2}{3}}$

Therefore, option B is the right answer.

Question 44

If one root of the equation $ax^2 + bx + c = 0$ is double of the other, then $2b^2$ =

A 9ca

B $c\sqrt{2a}$

C $c\sqrt{3ac}$

D None of the above

Answer: A

Explanation:

The given equation is $ax^2 + bx + c = 0$

Roots of the given quadratic equation are $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

We know that one of the 2 roots is double the other.

Therefore, $\frac{-b + \sqrt{b^2 - 4ac}}{2a} = 2 * \frac{-b - \sqrt{b^2 - 4ac}}{2a}$

$\Rightarrow -b + \sqrt{b^2 - 4ac} = -2b - 2\sqrt{b^2 - 4ac}$

$\Rightarrow b = -3\sqrt{b^2 - 4ac}$

Squaring on both sides, we get,

$b^2 = 9 * (b^2 - 4ac)$

$8b^2 = 36ac$

$2b^2 = 9ac$.

Therefore, option A is the right answer.

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Alternately

Suppose two roots are x, 2x

Sum of the roots= 3x=-b/a

Product of the roots= $2x^2$ = c/a

Putting the value of x from the first eqn.

We get $2b^2 = 9ac$..

Question 45

A boat goes 30 km upstream and 44 km downstream in 10 hours. In 13 hours, it can go 40 km upstream and 55 km down-stream. The speed of the boat in still water is:

A 3 km/hour

B 4 km/hour

C 8 km/hour

D None of the above

Answer: C

Explanation:
Let us assume the upstream speed of the boat = u and the downstream speed = v

30/u+44/v=10

40/u+55/v=13

Consider 1/u=a, 1/v=b, these equations become

30a+44b=10

40a+55b=13

We get a=1/5 and b=1/11 Hence, 1/u=1/5 and 1/v =1/11 => u=5 and v=11

Assuming speed of boat in still water is x and the speed of stream=y

u=x-y=5

v=x+y=11

From these equations, we get x=8 km/hr

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Question 46

$Cot^{-1}\left[\frac{\sqrt{1+sin\alpha}+\sqrt{1-sin\alpha}}{\sqrt{1+sin\alpha}-\sqrt{1-sin\alpha}}\right] =$

A $2\pi - \alpha$

B $\pi - \frac{1}{2}\alpha$

C $\frac{1}{2}\alpha - 3\pi$

D None of the above

Answer: B

Explanation:

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$$Col^{-1}\left[\frac{\sqrt{sin^2(a/2)+cos^2(a/2)-2sin(a/2)cos(a/2)}-\sqrt{sin^2(a/2)+cos^2(a/2)-2sin(a/2)cos(a/2)}}{\sqrt{sin^2(a/2)+cos^2(a/2)}-2sin(a/2)cos(a/2)}\sqrt{sin^2(a/2)+cos^2(a/2)+2sin(a/2)cos(a/2)}\right]$$

$$Cot^{-1}\left[\frac{cos(a/2)-sin(a/2)-cos(a/2)-sin(a/2)}{cos(a/2)-sin(a/2)-cos(a/2)-sin(a/2)}\right]$$

$$Cot^{-1}\left[\frac{2cos(a/2)}{2sin(a/2)}\right]$$

$$Cot^{-1}[Cot(a/2)]$$

We know that $Cot^{-1}[-x] = \pi - Cot^{-1}[x]$

Therefore, $Cot^{-1}[Cot(a/2)] = \pi - Cot^{-1}[Cot(a/2)] = \pi - \frac{1}{2}a$

Question 47

A pole has to be erected on the boundary of a circular park of diameter 13 metres in such a way that the difference of its distances from two diametrically opposite fixed gates A and B on the boundary is 7 metres. The distance of the pole from one of the gates is:

A 8 metres

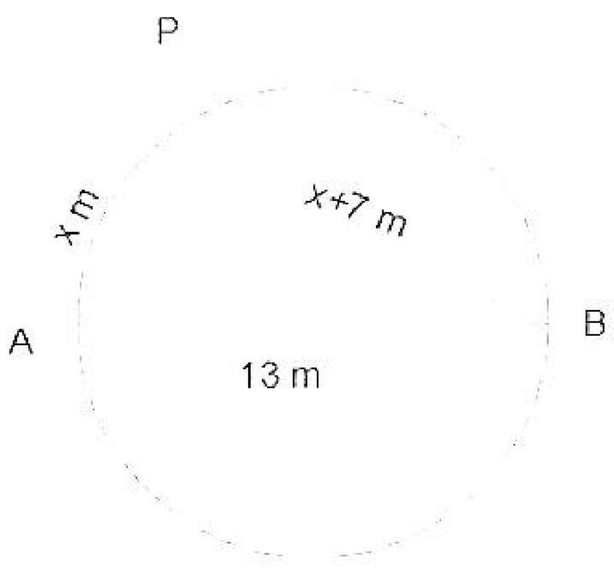
B 8.25 metres

C 5 metres

D None of the above

Answer: C

Explanation:
Let us construct a diagram based on the given statements.
There are 2 diametrically opposite gates A and B.
A pole is erected on the circumference such that the distance of the pole from one of the gates is 7 m more than the distance of the pole from the other gate. Let the distances be x and x+7 m.



Now, APB is a right-angled triangle (since AB is the diameter).
Applying Pythagoras theorem, we get,
$13^2 = x^2 + (x + 7)^2$
$169 = x^2 + x^2 + 14x + 49$
$120 = 2x^2 + 14x$
$x^2 + 7x - 60 = 0$
$(x + 12)(x - 5) = 0$
Therefore, x can be -12 or 5.
x cannot be negative. Therefore, x has to be 5.
The distance of the pole from one of the gates is 5 m. Therefore, option C is the right answer.

Question 48

A spiral is made up of 13 successive semicircles, with centres alternately at A and B, starting with the centre at A. The radii of semicircles thus developed are 0.5 cm, 1.0 cm, 1.5 cm, 2.0 cm and so on. The total length of the spiral is:

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A 144 cm

B 143 cm

C 174 cm

D None of the above

Answer: B

Explanation:

The length of the spiral will be equal to the length of the circular arc portions of the semicircles.

Length of the circular arc portion of a semicircle = $\frac{22}{7} * r$.

Length of the spiral = $\frac{22}{7} * (0.5 - 1 + 1.5 + 2 + ... - 6.5)$

$= \frac{22}{7} * 0.5 * |1 - 2 - 3 + ... - 13|$

$= \frac{11}{7} * \frac{13*14}{2}$

$=143$ cm.

Therefore, option B is the right answer.

Take a free SNAP mock test

Question 49

The mean salary in ICM LTD. was Rs. 1,500, and the standard deviation was Rs. 400. A year later each employee got a Rs. 100 raise. After another year each employee's salary (including the above mentioned raise) was increased by 20%. The standard deviation of the current salary is:

A 460

B 480

C 580

D None of the above

Answer: B

Explanation:

Standard deviation is the measure of how much the values in the group differ from the average.

If the salary of each person is increased by 100, the average salary will also be increased by 100. Therefore, the standard deviation will remain unaltered in this case.

Every person is given a hike of 20%. Therefore, the standard deviation will also increase by 20%. Therefore, the new standard deviation will be 1.2*400 = 480. Therefore, option B is the right answer.

Question 50

A medical clinic tests blood for certain disease from which approximately one person in a hundred suffers. People come to the clinic in group of 50. The operator of the clinic wonders whether he can increase the efficiency of the testing procedure by conducting pooled tests. In the pooled tests, the operator would pool the 50 blood samples and test them altogether. If the polled test was negative, he could pronounce the whole group healthy. If not, he could then test each person's blood individually. The expected number of tests the operator will have to perform if he pools the blood samples are:

A 47

B 25

C 21

D None of the above

Answer: C

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Explanation:
1 person in every 100 suffers from the disease.

Probability of a person being healthy = $\frac{99}{100}$

In a group of 50 people if the test is positive, then he could then test each person's blood individually otherwise he will consider that the entire group is healthy

The number of tests =50+1 = 51

The probability that all the people in the group are healthy = ${}^{50}C_{50} \times \left(\frac{99}{100}\right)^{50}$

= approx 0.605

So the probability that atleast one person suffers in a group of 50 = 1-0.605= 0.395

Expected number of tests = 51*0.395 + 0.605*1

= 20.145+0.605

=20.75 = 21 tests.

C is the correct answer.

Question 51

The game of "chuck-a-luck" is played at carnivals in some parts of Europe. Its rules are as follows: if you pick a number from 1 to 6 and the operator rolls three dice. If the number you picked comes up on all three dice, the operator pays you €3; if it comes up on two dice, you are paid €2; and if it comes up on just one die, you are paid €1. Only if the number you picked does not come up at all, you pay the operator €1. The probability that you will win money playing in this game is:

A 0.52

B 0.753

C 0.42

D None of these

Answer: C

Explanation:
There are 3 ways to win money in the game.
The number you picked can come up in one dice, 2 dice or 3 dice.
The probability of the number you picked coming in all three dice = (1/6)*(1/6)*(1/6) = 1/216
The probability of the number picked coming on 2 dice = 3C2*(5/6)(1/6)(1/6) = 15/216
The probability of the number picked coming on 1 dice = 3C1*(5/6)(5/6)(1/6) = 75/216

Probability of winning = 1/216 + 15/214 + 75/216 = 91/216 = 0.421.
Therefore, option C is the right answer.

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Instructions

Answer the questions based on the following information.

Rajat is sales manager of Dubin Computers Ltd. and looks after Delhi market. The company sells laptops in India. He is currently trying to select a distributor for coming five years. The distributor ensures that the products are accessible to the customers in the market. Market share of a company depends on the coverage by the distributor. The total profit potential of the entire laptop market in Delhi is Rs. 5 crores in the current year and present value of next four years' cumulative profit potential is Rs. 15 crores. The first choice for Rajat is to enter into long-term contract with a distributor M/s Jagan with whom Dubin has done business in the past, and whose distribution system reaches 55 percent of all potential customers. At the last moment, however, a colleague suggests Rajat to consider signing a one-year contract with other distributors. Distributors M/s Bola and M/s James are willing to be partner with Dubin. Although a year ago M/s Bola's and M/s James's coverage reached only 40 and 25 percent of customers respectively, they claim to have invested heavily in distribution resources and now expect to be able to reach 60 percent and 75 percent o

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probability of M/s Bola's claim and M/s James's claim to be true is 0.60 and 0.20 respectively. The knowledge about distributors' coverage will evolve over time. The assumption is that the true level of coverage offered by the new distributors could be discovered, with certainty, through a one-year trail, and this trail will reveal exactly one of the two levels of coverage: for example in case of M/s Bola – 40 percent (as it was last year) or 60 percent (as claimed). In addition, it is also assumed that whatever the coverage is for both distributors, it will not change over time. Rajat narrows down on three choices, which are as follows:

Choice 1. Give a five year contract to the familiar distributor M/s Jagan.
Choice 2. Give a one year contract to the new distributor M/s Bola, and base next year's decision to renew contract with M/s Bola on observed coverage for next four years or enter into a four years' contract with M/s Jagan.
Choice 3. Give a one-year contract to the new distributor M/s James, and base next year's decision to renew contract with M/s James on observed coverage for next four years or enter into a four years contract with M/s Jagan..

Question 52

The expected present value of the five years cumulative profit with choice 3 is:

A Rs. 12.7 crores

B Rs. 10.6 crores

C Rs. 11.7 crores

D None of the above

Answer: B

Explanation:
We are left with 3 choices.

Choice 1:

The first choice is to give the contract to M/S Jagan. In this case, we know that Jagan's market reach is 55%. It has been given that the total profit potential is 5 crores in the present year and 15 crores in the next 4 years.

Therefore, the expected value of profit earned for choice 1 is 0.55*(5+15) = Rs.11 crore.

Choice 2:

Give the contract to M/s Bola for one year and based on the performance, renew the contract with him for the next 4 years or give M/S Jagan the contract for the next 4 years.

Let us assume that M/S Bola retains the contract for all 5 years. Rajat will renew the contract only if M/S Bola's claim that their market reach is 60% is true. The probability of the claim being true is 0.6.

Therefore, the EV of return if M/S Bola bags the contract for all 5 years = 0.6*0.6*(5+15) = Rs. 7.2 crores.

Let us assume that M/S Bola's claim is false. The probability of the claim being false is 1-0.6 = 0.4.
Now, if the claim is false, Rajat will terminate the contract by the end of the year and will partner with M/S Jagan for the next 4 years. Also, we have historic data that M/S Bola reaches 40% of the customers. Even if the claim is false, the laptops will reach 40% of the customers in the first year and 55% of the customers from the second year (Since M/S Jagan will bag the contract).

Therefore, the EV of profit in this case is 0.4*0.4*5+0.4*0.55*15 = 0.8 + 3.3 = Rs.4.1 crores.

Therefore, the total EV if M/S Bola bags the contract the first year is 7.2+4.1 = Rs.11.3 crores.

Choice 3:

Give the contract to M/s James for one year and based on the performance, renew the contract with him for the next 4 years or give M/S Jagan the contract for the next 4 years.

Let us assume that M/S James retains the contract for all 5 years. Rajat will renew the contract only if M/S Jame's claim that their market reach is 75% is true. The probability of the claim being true is 0.2.

Therefore, the EV of return if M/S James bags the contract for all 5 years = 0.2*0.75*(5+15) = Rs. 3 crores

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Let us assume that M/S James's claim is false. The probability of the claim being false is 1-0.2 = 0.8.
Now, if the claim is false, Rajat will terminate the contract by the end of the year and will partner with M/S Jagan for the next 4 years.
Also, we have historic data that M/S James reaches 25% of the customers. Even if the claim is false, the laptops will reach 25% of the customers in the first year and 55% of the customers from the second year (Since M/S Jagan will bag the contract).

Therefore, the EV of profit in this case is 0.8*0.25*5+0.8*0.55*15 = 1 + 6.6 = Rs.7.6 crores.

Therefore, the total EV if M/S Bola bags the contract the first year is 3+7.6 = Rs.10.6 crores.

EV of choice 1 = Rs. 11 crores
EV of choice 2 = Rs. 11.3 crores
EV of choice 3 = Rs. 10.6 crores

The expected value of choice 3 is Rs.10.6 crores. Therefore, option B is the right answer.

Question 53

Which of the following statements is TRUE?

A Choice 1 is more profitable than Choice 2

B Choice 3 is more profitable than Choice 2

C Choice 3 is more profitable than Choice 1

D None of the above

Answer: D

Explanation:
We are left with 3 choices.

Choice 1:

The first choice is to give the contract to M/S Jagan. In this case, we know that Jagan's market reach is 55%. It has been given that the total profit potential is 5 crores in the present year and 15 crores in the next 4 years.

Therefore, the expected value of profit earned for choice 1 is 0.55*(5+15) = Rs.11 crore.

Choice 2:

Give the contract to M/s Bola for one year and based on the performance, renew the contract with him for the next 4 years or give M/S Jagan the contract for the next 4 years.

Let us assume that M/S Bola retains the contract for all 5 years. Rajat will renew the contract only if M/S Bola's claim that their market reach is 60% is true. The probability of the claim being true is 0.6.

Therefore, the EV of return if M/S Bola bags the contract for all 5 years = 0.6*0.6*(5+15) = Rs. 7.2 crores.

Let us assume that M/S Bola's claim is false. The probability of the claim being false is 1-0.6 = 0.4.
Now, if the claim is false, Rajat will terminate the contract by the end of the year and will partner with M/S Jagan for the next 4 years.
Also, we have historic data that M/S Bola reaches 40% of the customers. Even if the claim is false, the laptops will reach 40% of the customers in the first year and 55% of the customers from the second year (Since M/S Jagan will bag the contract).

Therefore, the EV of profit in this case is 0.4*0.4*5+0.4*0.55*15 = 0.8 + 3.3 = Rs.4.1 crores.

Therefore, the total EV if M/S Bola bags the contract the first year is 7.2+4.1 = Rs.11.3 crores.

Choice 3:

Give the contract to M/s James for one year and based on the performance, renew the contract with him for the next 4 years or give M/S Jagan the contract for the next 4 years.

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Let us assume that M/S James retains the contract for all 5 years. Rajat will renew the contract only if M/S Jame's claim that their market reach is 75% is true. The probability of the claim being true is 0.2.

Therefore, the EV of return if M/S James bags the contract for all 5 years = 0.2*0.75*(5+15) = Rs. 3 crores.

Let us assume that M/S James's claim is false. The probability of the claim being false is 1-0.2 = 0.8.
Now, if the claim is false, Rajat will terminate the contract by the end of the year and will partner with M/S Jagan for the next 4 years.
Also, we have historic data that M/S James reaches 25% of the customers. Even if the claim is false, the laptops will reach 25% of the customers in the first year and 55% of the customers from the second year (Since M/S Jagan will bag the contract).

Therefore, the EV of profit in this case is 0.8*0.25*5+0.8*0.55*15 = 1 + 6.6 = Rs.7.6 crores.

Therefore, the total EV if M/S Bola bags the contract the first year is 3+7.6 = Rs.10.6 crores.

EV of choice 1 = Rs. 11 crores
EV of choice 2 = Rs. 11.3 crores
EV of choice 3 = Rs. 10.6 crores

Arranging the choices in terms of their EV, we get, Choice 2 > Choice 1 > Choice 3.

Option A:
Choice 1 is more profitable than Choice 2

Option B:
Choice 3 is more profitable than Choice 2

Option C:
Choice 3 is more profitable than Choice 1

As we can see, all three options are false. Therefore, option D is the right answer.

Question 54

If the distributor M/s James claims a coverage of 55% instead of 75% and probability of this claim to be true is 0.70 instead of 0.20 then which of the following statement is true?

A Choice 1 is more profitable than Choice 2

B Choice 2 is more profitable than Choice 3

C Choice 3 is more profitable than Choice 1

D None of the above

Answer: B

Explanation:
We are left with 3 choices.

Choice 1:

The first choice is to give the contract to M/S Jagan. In this case, we know that Jagan's market reach is 55%. It has been given that the total profit potential is 5 crores in the present year and 15 crores in the next 4 years.

Therefore, the expected value of profit earned for choice 1 is 0.55*(5+15) = Rs.11 crore.

Choice 2:

Give the contract to M/s Bola for one year and based on the performance, renew the contract with him for the next 4 years or give M/S Jagan the contract for the next 4 years.

Let us assume that M/S Bola retains the contract for all 5 years. Rajat will renew the contract only if M/S Bola's claim that their market reach is 60% is true. The probability of the claim being true is 0.6.

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Therefore, the EV of return if M/S Bola bags the contract for all 5 years = 0.6*0.6*(5+15) = Rs. 7.2 crores.

Let us assume that M/S Bola's claim is false. The probability of the claim being false is 1-0.6 = 0.4.
Now, if the claim is false, Rajat will terminate the contract by the end of the year and will partner with M/S Jagan for the next 4 years.
Also, we have historic data that M/S Bola reaches 40% of the customers. Even if the claim is false, the laptops will reach 40% of the customers in the first year and 55% of the customers from the second year (Since M/S Jagan will bag the contract).

Therefore, the EV of profit in this case is 0.4*0.4*5+0.4*0.55*15 = 0.8 + 3.3 = Rs.4.1 crores.

Therefore, the total EV if M/S Bola bags the contract the first year is 7.2+4.1 = Rs.11.3 crores.

It has been given in this question that M/S James claims a coverage of 55% and the probability of this being true is 0.7.

Choice 3:

Give the contract to M/s James for one year and based on the performance, renew the contract with him for the next 4 years or give M/S Jagan the contract for the next 4 years.

Let us assume that M/S James retains the contract for all 5 years. Rajat will renew the contract only if M/S Jame's claim that their market reach is 55% is true. The probability of the claim being true is 0.7.

Therefore, the EV of return if M/S James bags the contract for all 5 years = 0.7*0.55*(5+15) = Rs. 7.7 crores.

Let us assume that M/S James's claim is false. The probability of the claim being false is 1-0.7 = 0.3.
Now, if the claim is false, Rajat will terminate the contract by the end of the year and will partner with M/S Jagan for the next 4 years.
Also, we have historic data that M/S James reaches 25% of the customers. Even if the claim is false, the laptops will reach 25% of the customers in the first year and 55% of the customers from the second year (Since M/S Jagan will bag the contract).

Therefore, the EV of profit in this case is 0.3*0.25*5+0.3*0.55*15 = 0.375 + 2.475 = Rs.2.85 crores.

Therefore, the total EV if M/S Bola bags the contract the first year is 7.7+2.85 = Rs.10.55 crores.

EV of choice 1 = Rs. 11 crores
EV of choice 2 = Rs. 11.3 crores
EV of choice 3 = Rs. 10.55 crores

Arranging the choices by EV, we get, Choice 2 > Choice 1 > Choice 3.
Choice 2 is more profitable than choice 3. Therefore, option B is true and hence, option B is the right answer.

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Instructions
For the following questions answer them individually

Question 55

McDonald's ran a campaign in which it gave game cards to its customers. These game cards made it possible for customers to win hamburgers, French fries, soft drinks, and other fast-food items, as well as cash prizes. Each card had 10 covered spots that could be uncovered by rubbing them with a coin. Beneath three of these spots were "No Prize" signs. Beneath the other seven spots were names of the prizes, two of which were identical. For, example, one card might have two pictures of a hamburger, one picture of a coke, one of French fries, one of a milk shake, one of a $5, one of $1000, and three "No Prize" signs. For this card the customer could win a hamburger. To win on any card, the customer had to uncover the two matching spots (which showed the potential prize for that card)before uncovering a "No Prize"; any card with a "No Prize" uncovered was automatically void. Assuming that the two matches and the three "No Prize" signs were arranged randomly on the cards, what is the probability of a customer winning?

A 0.10

B 0.15

C 0.12

D None of the above

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Answer: A

Explanation:
Case 2: When we win by uncovering just 3 spots.

_ _ P _ _ _ _ _ _

From the first two uncovered spots 1 will show up P. Out of remaining 7 spots, 3 spots will be filled by No prize. Total number of ways = 2C1*7C3*5!

There are a total of 10 spots out of which 3 are of one type (No Prize), 2 are of one time (The one which will give us prize) and 5 are different. Therefore, total number of combination in which we can uncover these spots = $\frac{10!}{2! * 3!}$

We win if we win the two same card before any of the No prize spot. We can win by uncovering just 2 spots and a maximum of 7 spots. Let 'P' denotes the occurrence of winner card.

Case 1: When we win by uncovering just 2 spots.

P P _ _ _ _ _ _ _ _

Out of remaining 8 spots, 3 spots will be filled by No prize and 5 with different signs. Total number of ways = 8C3*5!

Case 2: When we win by uncovering just 3 spots.

_ _ P _ _ _ _ _ _

From the first two uncovered spots 1 will show up P. Out of remaining 7 spots, 3 spots will be filled by No prize. Total number of ways = 2C1*7C3*5!

Case 3: When we win by uncovering just 4 spots.

_ _ _ P _ _ _ _ _

From the first three uncovered spots 1 will show up P. Out of remaining 6 spots, 3 spots will be filled by No prize. Total number of ways = 3C1*6C3*5!

Case 4: When we win by uncovering just 5 spots.

_ _ _ _ P _ _ _ _

From the first four uncovered spots 1 will show up P. Out of remaining 5 spots, 3 spots will be filled by No prize. Total number of ways = 4C1*5C3*5!

Case 5: When we win by uncovering just 6 spots.

_ _ _ _ _ P _ _ _

From the first five uncovered spots 1 will show up P. Out of remaining 4 spots, 3 spots will be filled by No prize. Total number of ways = 5C1*4C3*5!

Case 6: When we win by uncovering just 7 spots.

_ _ _ _ _ _ P _ _

From the first six uncovered spots 1 will show up P. Out of remaining 3 spots, 3 spots will be filled by No prize. Total number of ways = 6C1*3C3*5!

Hence, the probability that a customer will win = $\frac{8C3 * 5! + 2C1 * 7C3 * 5! + 3C1 * 6C3 * 5! + 4C1 * 5C3 * 5! + 5C1 * 4C3 * 5! + 6C1 * 3C3 * 5!}{\frac{10!}{2! * 3!}}$

$\Rightarrow \frac{3! * 2! * 5!(56 + 70 + 60 + 40 + 20 + 6)}{10!}$

$\rightarrow \frac{1}{10}$. Therefore, option A is the correct answer.

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Question 56

While packing for a business trip Mr. Debashis has packed 3 pairs of shoes, 4 pants, 3 half-pants, 6 shirts, 3 sweater and 2 jackets. The outfit is defined as consisting of a pair of shoes, a choice of "lower wear" (either a pant or a half-pant), a choice of "upper wear" (it could be a shirt or a sweater or both) and finally he may or may not choose to wear a jacket. How many different outfits are possible?

A 567

B 1821

C 743

D None of the above

Answer: D

Explanation:
Let us find out the number of ways in which an outfit can be selected.
An outfit is defined as a pair of shoes, an upper wear, and a lower wear.
A pair of shoes can be selected in 3 ways.
There are 4 pants and 3 half-pants.
A pant or a half-pant can be selected in 7 ways.
A shirt can be selected in 6 ways.
A sweater can be selected in 3 ways.
A shirt and a sweater can be selected in 18 ways.
Therefore, an upper wear can be selected in 6+3+18 = 27 ways.
A jacket can be worn in 1 (no jacket is selected) + 2 (one of the 2 jackets is selected) = 3 ways.

Therefore, the total number of ways in which an outfit can be worn = 3*7*27*3 = 1701.
As the answer is not among the given choices, option D is the right answer.

Question 57

If $\tan x + \tan(x + \frac{\pi}{3}) + \tan(x + \frac{2\pi}{3}) = 3$ then which of the following is correct?

A $\tan x = 1$

B $\tan 2x = 1$

C $\tan 3x = 1$

D None of the above

Answer: C

Explanation:
Substituting $x + \frac{\pi}{3} = a$.

$tan(a - \frac{\pi}{3}) - tan(a) + tan(a + \frac{\pi}{3}) = 3$

We know that $tan(a - b) = \frac{tan(a) \quad tab(b)}{1 + tan(a) * tan(b)}$

Therefore, $tan(a - \frac{\pi}{3}) = \frac{tan(a) - tab(\frac{\pi}{3})}{1 - tan(a) * tan(\frac{\pi}{3})}$

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$$tan(a - \tfrac{\pi}{3}) = \frac{tan(a) - \sqrt{3}}{1 + \sqrt{3}tan(a)}$$

Similarly, $tan(a + \tfrac{\pi}{3}) = \frac{tan(a) + \sqrt{3}}{1 - \sqrt{3}tan(a)}$

Hence, $tan(a - \tfrac{\pi}{3}) + tan(a) + tan(a + \tfrac{\pi}{3}) = \frac{tan(a) - \sqrt{3}}{1 + \sqrt{3}tan(a)} + \tan(a) + \frac{tan(a) + \sqrt{3}}{1 - \sqrt{3}tan(a)}$

$$\rightarrow \frac{8tan(a)}{1 - 3tan^2(a)} + tan(a)$$

$$\rightarrow \frac{9tan(a) - 3tan^3(a)}{1 - 3tan^2(a)}$$

$$\Rightarrow 3tan(3a)$$

It is given that, $3tan(3a) = 3$

Substituting $a = x + \frac{\pi}{3}$

$tan[3(x + \frac{\pi}{3})] = 1$

$tan[\pi + 3x] = 1$ i.e. $tan(3x) = 1$. Hence, option C is the correct answer.

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Question 58

If D is the midpoint of side BC of a triangle ABC and AD is the perpendicular to AC then:

A $3AC^2 = BC^2 - AB^2$

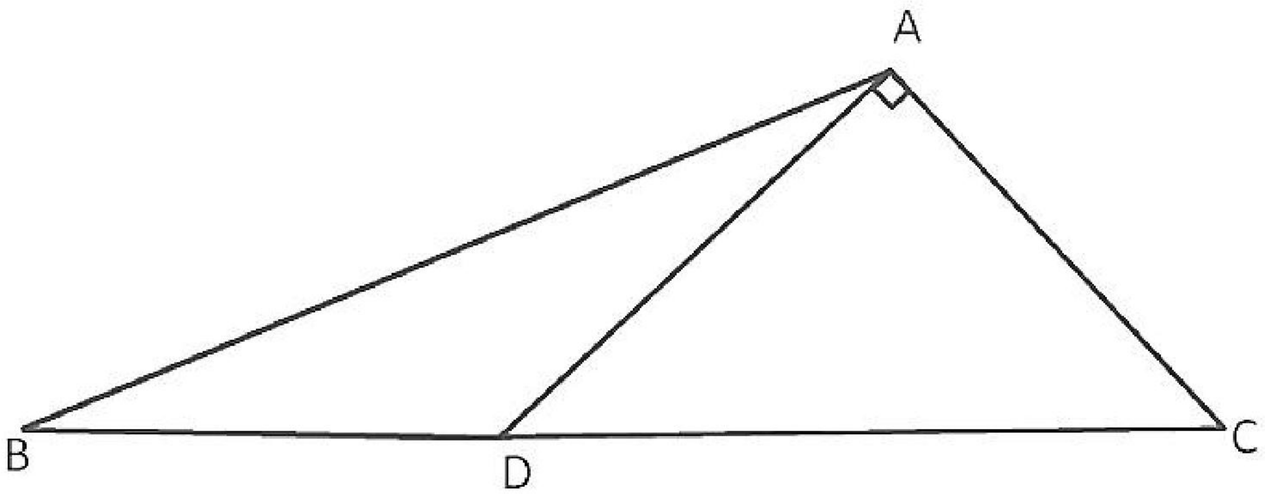
B $3BC^2 = AC^2 - 3AB^2$

C $BC^2 + AC^2 = 5AB^2$

D None of the above

Answer: A

Explanation:



Using Apollonius theorem in $\triangle$ ABC, we can say that,

$2(AD^2 + BD^2) = AB^2 - AC^2$ ... (1)

In right-angle triangle ADC, $DC^2 = AD^2 + AC^2$ ... (2)

By equation (1) and (2), we can say that

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$2(DC^2 \quad AC^2 + BD^2) - AB^2 + AC^2$

$3AC^2 = BC^2 - AB^2$

Therefore, option A is the correct answer.

Question 59

A cylinder, a Hemi-sphere and a cone stand on the same base and have the same heights. The ratio of the areas of their curved surface is:

A $2 : 2 : 1$

B $2 : \sqrt{2} : 1$

C $\sqrt{2} : 3 : 1$

D None of the above

Answer: D

Explanation:

The cylinder, hemisphere and cone stand on the same base and have the same height. Let the radius of the three solids be r and the height be h.

Height of the hemisphere, $h = r$ (Radius)

Curved surface area of the cylinder = $2 * \pi * r * r = 2 * \pi * r^2$
Curved surface area of the hemisphere = $2 * \pi * r^2$
Curved surface area of the cone = $\pi * r * \sqrt{r^2 + r^2} = \pi * r * \sqrt{r^2 - r^2} = \pi * r^2 * \sqrt{2}$
Ratio = $2 : 2 : \sqrt{2} = \sqrt{2} : \sqrt{2} : 1$
As the answer is not among the given options, option D is the right answer.

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Section III

Instructions

Answer the questions based on the following table.

Growth Trend in Rail Wagons								
Year	Total Wagons	Covered wagons	Open High sided wagons	Open Low sided wagons	Depart-mental wagons	Special type wagons	Total wagon capacity	Average wagon capacity
	Number	Number	Number	Number	Number	Number	(Million Tonnes)	(Tonnes)
1993	337562	157581	105469	12221	12009	50282	11.79	34.9
1994	312405	138642	101160	11922	11473	49208	11.32	36.2
1995	291360	121946	98795	11507	11185	47927	10.76	36.9
1996	280791	114065	98297	11196	11008	46225	10.62	37.8
1997	272127	106634	98906	10601	10645	45341	10.64	39.1
1998	263981	102217	97616	9726	10569	43853	10.69	40.5
1999	252944	96371	95613	9106	9612	42242	10.7	42.3
2000	234397	86024	91415	7735	8907	40316	10.26	43.8
2001	222193	75768	91099	7999	8443	38884	10.19	45.9
2002	216717	71950	90371	7585	9536	37275	10.09	46.6
2003	214760	68467	90765	7160	10718	37650	9.98	46.5
2004	227752	67870	100211	8882	11388	39401	10.66	46.8
2005	222379	64417	101757	8787	10964	36454	10.6	47.7

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Question 60

Find the TRUE Statement:

A The number of covered wagons expressed as a percentage of total wagons declined consistently from 1993 to 2002, but increased marginally in 2003 as compared to the previous year level.

B The special type wagons expressed as a percentage of total wagons is maximum during 2003.

C The open high sided wagons expressed as a percentage of total wagons increased during 1994 to 2001, but declined from the 2001 level in 2002.

D None of the above.

Answer: B

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Question 61

The special type wagons expressed as a percentage of total wagons were at almost same level during the following pair of years:

A 1995 and 2001

B 1998 and 2004

C 2000 and 2002

D 1993 and 1994

Answer: C

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Question 62

The Departmental wagons expressed as a percentage of total wagons was maximum during:

A 2002

B 2005

C 2004

D 2003

Answer: C

Question 63

Find out the LOWEST annual growth rate among the following:

A Annual growth rate of total wagons in 1999

B Annual growth rate of covered wagons in 1998

C Annual growth rate of special type wagons in 2002

D Annual growth rate of total wagon capacity in 2000

Answer: A

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Question 64

Find out the FALSE statement:

A The annual growth rate of covered wagons in 1996 was higher than the same in 2000.

B The annual growth rate of open high sided wagons in 1997 was higher than the same in 2003.

C The annual percentage growth rate of average wagon capacity has been maximum in 1999.

D None of the above.

Answer: C

Question 65

Find out the HIGHEST annual growth rate among the following:

A Annual growth rate of total wagons in 1995.

B Annual growth rate of covered wagons in 2002.

C Annual growth rate of open Low sided wagons in 1998.

D Annual growth rate of departmental wagons in 2000.

Answer: B

Explanation:
By solving the options ,we can see

A: [(291360-312405)/312405]*100=-6.7%

B:[(71950-75768)/75768]*100=-5%

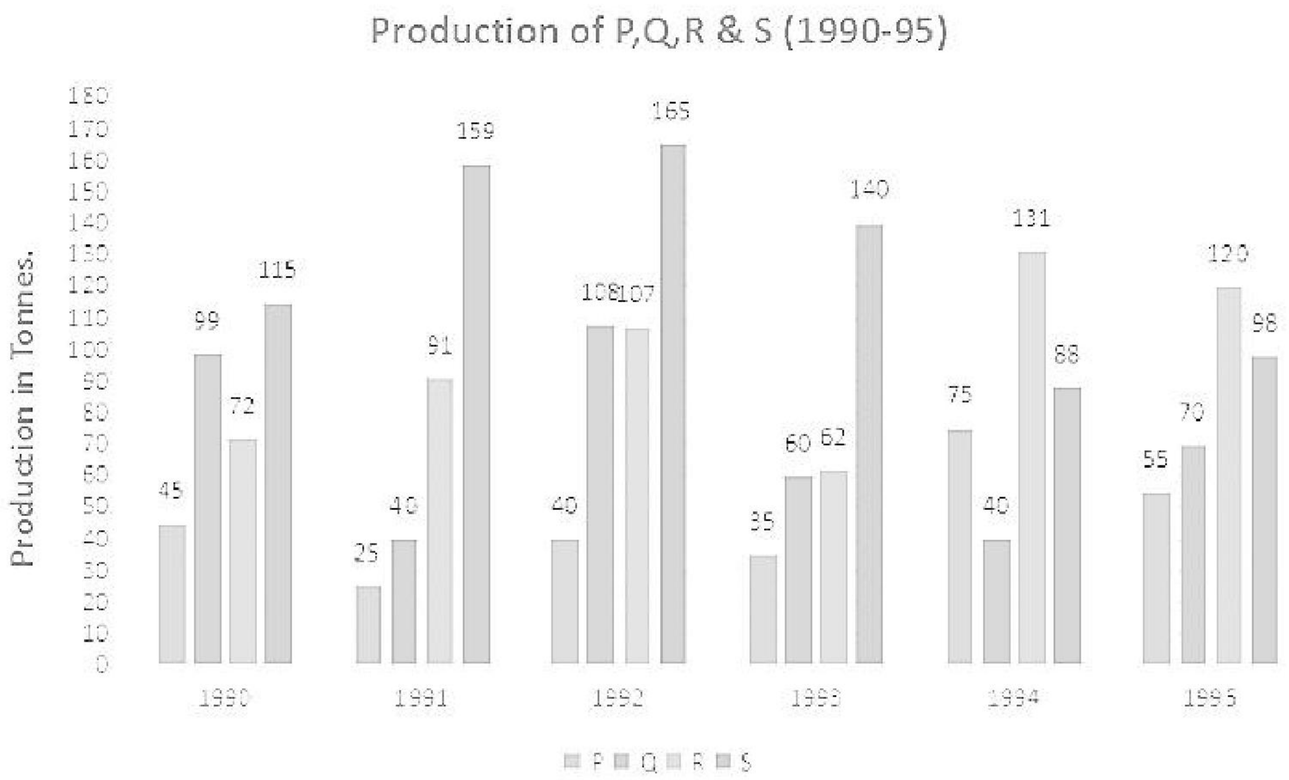
C:[(9726-10601)/10601]*100=-8.2%

D:[(8907-9612)/8907]*100=-7.3%

Hence B is the correct answer

Instructions

Answer the questions based on the following graph.



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Question 66

In which year the annual growth rate of total production (of all products) is highest?

A 1991

B 1992

C 1993

D 1995

Answer: B

Question 67

If the stability of the production during 1990 to 1995 is defined as,

A Product P

B Product Q

C Product R

D Product S

Answer: D

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Question 68

If four products P, Q, R and S shown in the graph are sold at price of Rs. 9, Rs. 4, Rs.13 and Rs.3 respectively during 1990-1995, then the total revenue of all the products is lowest in which year?

A 1991

B 1992

C 1993

D None of the above

Answer: C

Question 69

Individual revenue of P, Q, R and S for the entire period (1990-1995) is calculated based on the price of Rs.9, Rs.4, Rs.13 and Rs.3 respectively. Which product fetches the lowest revenue?

A Product P

B Product Q

C Product R

D Product S

Answer: B

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Question 70

Four products P, Q, R and S shown in the graph are sold at price of Rs.9, Rs.4, Rs.13 and Rs.3 respectively during 1990-1995. Which of the following statements is TRUE?

A Product R fetches second highest revenue across products in 1991.

B Sum of revenue of P, Q and S is more than the revenue of R in 1994.

C Cumulative revenue of P and Q is more than the revenue of S in 1993.

D None of the above

Answer: C

Explanation:
Let's look at the options one by one ,

Option A: Revenue by products P = 25*9 = 225 , Q = 40*4 = 160 , R = 91*13 = 1183, S = 159*3 = 477

Revenue of R is the highest. Hence A is not the correct answer.

Option B: Revenue by products P = 75*9 = 675, Q = 40*4 = 160 , R = 131*13 = 1703, S = 88*3 = 264

Sum of revenues of P, Q, S =1094

The combined revenue of P, Q, S is less than the revenue from R in 1994.

Hence B is not the correct answer.

Option C: Revenue by products P = 35*9 = 315, Q = 60*4 = 240, R = 62*13 = 806, S = 140*3 = 420

The cumulative revenue of P and Q = 555

The cumulative revenue of P and Q is more than the revenue of S in 1993.

Hence C is the correct answer.

Instructions

Answer the questions based on the following table.

State-wise FDI Inflow								
State	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**
Andhra Pradesh	3707	34522	14566	8708	16256	15819	17311	47828
Bihar	659	5586	52	346	1878	10849	58002	40107
Gujarat	14193	10889	10781	10020	32043	29648	82793	72093
Haryana	3414	1201	800	834	8345	2685	5577	16095
Karnataka	3299	3553	4101	2164	14071	10904	15066	71844
Kerala	376	535	197	70	199	290	600	1141
Madhya Pradesh	7099	2726	2472	13891	17761	56138	58679	131267
Maharashtra	37275	14442	9780	21440	6909	10675	24480	60864
Orissa	6144	2342	897	3477	17718	45565	38255	97185
Punjab	13657	2184	11274	627	1747	3894	6340	9228
Rajasthan	4204	3236	2823	710	1096	2162	5077	10034
Tamil Nadu	5906	4066	2867	1424	2622	54107	11365	19850
Uttar Pradesh	5160	1936	2899	2419	3483	24058	37405	48622
West Bengal	6706	2111	1933	8584	7569	13994	12028	51830

Question 71

Mark the HIGHEST FDI inflow growth rate among the following:

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A Annual FDI inflow growth rate in Gujarat in 2006.

B Annual FDI inflow growth rate in Kerala in 2004.

C Annual FDI inflow growth rate in Haryana in 2007.

D Annual FDI inflow growth rate in Punjab in 2004.

Answer: C

Explanation:
Let's calculate the options one by one,

Option A: Annual FDI inflow growth rate in Gujarat in 2006 = (82793-29648)/29648 = 1.7925

Option B: Annual FDI inflow growth rate in Kerala in 2004 = (199-70)/70 =1.8428

Option C: Annual FDI inflow growth rate in Haryana in 2007 = (16095-5577)/5577=1.8859

Option D: Annual FDI inflow growth rate in Punjab in 2004 = (1747-627)/627 =1.7863

Among all the growth rates, the Annual FDI inflow growth rate in Haryana in 2007 is the highest.

Hence C is the correct answer.

Question 72

Mark the LOWEST FDI inflow growth rate among the following:

A Annual FDI inflow growth rate in West Bengal in 2001.

B Annual FDI inflow growth rate in Kerala in 2002.

C Annual FDI inflow growth rate in Maharashtra in 2004.

D Annual FDI inflow growth rate in Haryana in 2005.

Answer: A

Explanation:
Let's calculate the options one by one,

Option A: Annual FDI inflow growth rate in West Bengal in 2001 = (2111-6706)/6706 = -0.685

Option B: Annual FDI inflow growth rate in Kerala in 2002 = (197-535)/535 = -0.6317

Option C: Annual FDI inflow growth rate in Maharashtra in 2004= (6909-21440)/21440 = -0.6777

Option D: Annual FDI inflow growth rate in Haryana in 2005. = (2685-8345)/8345=-0.6782

Among the above values, Annual FDI inflow growth rate in West Bengal in 2001 is the lowest.

Hence A is the correct answer.

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Question 73

Mark the TRUE statement:

A The decline in annual FDI growth rate for Gujarat in 2001 was smaller than the corresponding figure for Karnataka in 2005.

B The annual growth rate of FDI in Kerala in 2001 was greater than the corresponding figure for Uttar Pradesh in 2004.

C The annual growth rate of FDI in Kerala in 2005 was greater than the corresponding figure for Punjab in 2007.

D None of the above.

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Answer: C

Explanation:
Let's solve the options one by one,

Option A: Decline in annual FDI growth rate for Gujarat in 2001 (10889-14193)/14193 =23.3

Decline in annual FDI growth rate for Karnataka in 2005 [(10904-14071)/14071] =22.5

The Decline in Gujarath was greater than that of Karnataka. Hence A is not the correct answer

Option B: Annual growth rate of FDI in Kerala in 2001 = (535-376)/376=42.29

The Annual growth rate of FDI in Uttar Pradesh in 2004 [(3483-2419)/2419]=43.98

The Annual growth rate of FDI in Kerala in 2001 was lesser than that of Uttar Pradesh in 2004. Hence B is not the correct answer

Option C: Annual growth rate of FDI in Kerala in 2005 = (290-199)/199 =45.72

Annual growth rate of FDI in Punjab in 2007 [(9228-6340)/6340] = 45.55

The Annual growth rate of FDI in Kerala is greater than that of Punjab.

Hence C is the correct answer.

Question 74

Mark the FALSE statement:

A The absolute annual increase in FDI inflow in Bihar in 2001 is lower than the corresponding figure for Rajasthan in 2007.

B The annual FDI growth rate in West Bengal in 2006 was higher than the corresponding figure for Uttar Pradesh in 2003.

C The absolute annual increase in FDI inflow in Madhya Pradesh in 2004 is lower than the corresponding figure for Maharashtra in 2005.

D None of the above.

Answer: C

Explanation:
Let's solve the options one by one,

Option A: The absolute annual increase in FDI inflow in Bihar in 2001 (5586-659)=4927

The absolute annual increase in FDI inflow in Rajasthan in 2007 (10034-5077)=4957

Option B: Annual FDI growth rate in West Bengal in 2006 [(12028-13994)/13994]*100=-14%

Annual FDI growth rate in West Bengal in Uttar Pradesh in 2003 [(2419-2899)/2899]*100=-16%

Option C: The absolute annual increase in FDI inflow in Madhya Pradesh in 2004 17761-13891= 3870

The absolute annual increase in FDI inflow in Maharashtra in 2005 10675-6909= 3766

Hence C is the correct answer.

Question 75

Mark the TRUE statement:

A The absolute annual increase in FDI inflow in Haryana in 2006 is lower than the corresponding figure for Punjab in 2007.

B Among all States, in 2003 the absolute annual increase in FDI inflow was maximum for Madhya Pradesh.

C The absolute annual increase in FDI inflow in Bihar in 2003 is higher than the corresponding figure for Karnataka in 2001.

D The FDI inflow in Kerala over 2002 to 2007 was consistently the lowest across all the states

Answer: C

Explanation:

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The absolute annual increase in FDI inflow in Haryana in 2006 is lower than the corresponding figure for Punjab in 2007.

Option (A): The absolute annual increase in FDI inflow for Haryana in 2006 = 2892

The absolute annual increase in FDI inflow for Punjab in 2007 = 2888

Option (B): The absolute annual increase in FDI inflow for MP in 2003 = 11419

The absolute annual increase in FDI inflow for Maharashtra in 20073 = 11660

Option (C): The absolute annual increase in FDI inflow in Bihar in 2003 = 294

The absolute annual increase in FDI inflow for Karnataka in 2001 = 254

We can see that option C is true.

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Instructions

Answer the questions based on the following table.

World Merchandise Exports by Regions and Selected Economics							
Region/ Country	2000	2001	2002	2003	2004	2005	2006
World	6454000	6187000	6487000	7580000	9210000	10472000	12083000
North America	1224975	1147545	1106240	1162965	1324235	1479330	1678315
Canada	276635	259858	252394	272739	316548	359399	389538
US	781918	729100	693103	724771	818520	905978	1038278
Latin America	195800	188600	190700	219100	284700	355000	429900
Argentina	26341	26543	25650	29566	34576	40351	46569
Brazil	55086	58223	60362	73084	96475	118308	137470
Europe	2633930	2654555	2839440	3386490	4051000	4396895	4962980
Germany	551818	571645	615831	751560	909887	970915	1111969
UK	285429	272715	280195	305627	347493	384477	448291
Africa	147800	137400	141100	176400	229900	299500	363300
Nigeria	20975	17261	15107	22605	31148	42277	52000
South Africa	29983	29258	29723	36482	46146	51626	58412
Asia	1837300	1674400	1807800	2138300	2653100	3059000	3577700
China	249203	266098	325596	438228	593326	761953	968936
India	42379	43361	49250	58963	76427	99376	120254
Japan	479249	403496	416726	471817	565675	594905	649931

Question 76

Mark the LOWEST percentage among the following:

A Export from Canada expressed as a proportion of export from North America in 2000.

B Export from Germany expressed as a proportion of export from Europe in 2004.

C Export from China expressed as a proportion of export from Asia in 2004.

D Export from Japan expressed as a proportion of export from Asia in 2003.

Answer: D

Explanation:
Let's solve the options one by one,

Option A: Export from Canada expressed as a proportion of export from North America in 2000 = (276635/1224975)*100 = 22.58%

Option B: Export from Germany expressed as a proportion of export from Europe in 2004 = (909887/4051000)*100=22.46%

Option C: Export from China expressed as a proportion of export from Asia in 2004 = (593326/2653100)*100 =22.36%

Option D: Export from Japan expressed as a proportion of export from Asia in 2003 = (471817/2138300)*100=22.06%

Among the above values ,
Export from Japan expressed as a proportion of export from Asia in 2003 is the lowest.

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Hence D is the correct answer.

Question 77

Identify the TRUE statement:

A The annual export growth rate of Argentina in 2003 was lower than the corresponding figure for US in 2006.

B The annual export growth rate of Africa in 2004 was lower than the corresponding figure for Latin America during the same period.

C The annual export growth rate of US in 2004 was lower than the corresponding figure for Canada in 2005.

D None of the above.

Answer: C

Explanation:
Let's solve the options one by one,
Option A:Annual export growth rate of Argentina in 2003 [(29566-25650)/25650]=0.153

Annual export growth rate of US in 2006 [(1038278-905978)/905978]=0.146

The annual export growth rate of Argentina in 2003 is greater than that of US in 2006.

Option B: Annual export growth rate of Africa in 2004 [(229900-176400)/176400]=0.303

The annual export growth rate of Latin America in 2004 [(284700-219100)/219100]=0.299

The annual export growth rate of Africa is greater than that of Latin America in 2004

Option C:Annual export growth rate of US in 2004 [(818520-724771)/724771]=0.129

The annual export growth rate of Canada in 2005 [(359399-316548)/359399]=0.135

The annual export growth rate of US in 2004 is lesser than that of Canada in 2005

Hence C is the correct answer.

Question 78

Mark the HIGHEST annual growth rate among the following:

A Annual growth rate of World export in 2005.

B Annual growth rate of North American export in 2004.

C Annual growth rate of India's export in 2002.

D Annual growth rate of Japan's export in 2003.

Answer: B

Explanation:
Let's solve the options one by one,

Option A: Annual growth rate of World export in 2005 = (10472000-9210000)/9210000 =0.137

Option B: Annual growth rate of North American export in 2004 = (1324235-1162965)/1162965 =0.138

Option C: Annual growth rate of India's export in 2002 = (49250-43361)/43361 =0.136

Option D: Annual growth rate of Japan's export in 2003 = (471817-416726)/416726=0.132

The annual growth rate of North American export in 2004 is the highest.
Hence B is the answer.

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Question 79

Mark the FALSE statement:

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A The exports from Argentina expressed as a proportion of export from Latin America in 2001 was greater than the exports from Nigeria expressed as a proportion of exports from Africa in 2004.

B The exports from UK expressed as a proportion of exports from Europe in 2000 is lower than the exports from Argentina expressed as a proportion of exports from Latin America in 2005.

C The annual export growth rate of Argentina in 2004 was higher than the corresponding figure for Asia in 2005.

D The exports from South Africa in 2001 expressed as a proportion of exports from Africa is lower than the exports from China expressed as a proportion of exports from Asia in 2003.

Answer: D

Explanation:
Option (A): The exports from Argentina expressed as a proportion of export from Latin America in 2001 was greater than the exports from Nigeria expressed as a proportion of exports from Africa in 2004.

$$\text{The exports from Argentina expressed as a proportion of export from Latin America in 2001} = \frac{26543}{188600} = 0.1407$$

$$\text{The exports from Nigeria expressed as a proportion of exports from Africa in 2004} = \frac{31148}{229900} = 0.135$$

Option (B): The exports from UK expressed as a proportion of exports from Europe in 2000 is lower than the exports from Argentina expressed as a proportion of exports from Latin America in 2005.

$$\text{The exports from UK expressed as a proportion of exports from Europe in 2000} = \frac{285429}{2633930} = 0.108$$

$$\text{The exports from Argentina expressed as a proportion of exports from Latin America in 2005} = \frac{40351}{355000} = 0.114$$

Option (C): The annual export growth rate of Argentina in 2004 was higher than the corresponding figure for Asia in 2005.

$$\text{The annual export growth rate of Argentina in 2004} = \frac{34576 - 29566}{29566} \times 100 = 16.94\ \%$$

$$\text{The annual export growth rate of Asia in 2005} = \frac{3059000 - 2653100}{2653100} \times 100 = 15.30\ \%$$

Option (D): The exports from South Africa in 2001 expressed as a proportion of exports from Africa is lower than the exports from China expressed as a proportion of exports from Asia in 2003.

$$\text{The exports from South Africa in 2001 expressed as a proportion of exports from Africa} = \frac{29258}{137400} = 0.212$$

$$\text{The exports from China expressed as a proportion of exports from Asia in 2003} = \frac{438228}{2138300} = 0.204$$

Therefore, option D is the correct answer.

Question 80

Mark the FALSE statement:

A The absolute annual increase in exports from Asia in 2003 was less than the corresponding figure in 2006.

B The absolute annual increase in exports from Germany in 2001 was higher than the corresponding figure for US in 2003.

C The absolute annual increase in exports from Brazil in 2005 was higher than the corresponding figure for Japan in 2002.

D None of the above.

Answer: B

Explanation:

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Let's solve the options one by one,
Option A: Absolute annual increase in exports from Asia in 2003 = (2138300-1807800)/1807800 = 0.183

The absolute annual increase in exports from Asia in 2006 = (3577700-3059000)/3059000 = 0.169

The absolute annual increase in exports from Asia in 2003 is lesser than that of the year 2006.

Option B: Absolute annual increase in exports from Germany in 2001 =(571645-551818)/551818 = 0.036

The absolute annual increase in exports from US in 2003 = (724771-693103)/693103 = 0.046

The absolute annual increase in exports from Germany in 2001 is lesser than that of US in 2003

Option C: Absolute annual increase in exports from Brazil in 2005 (118308-96475)/96475 = 0.226

The absolute annual increase in exports from Japan in 2002 = (416726-403496)/403496 = 0.0328

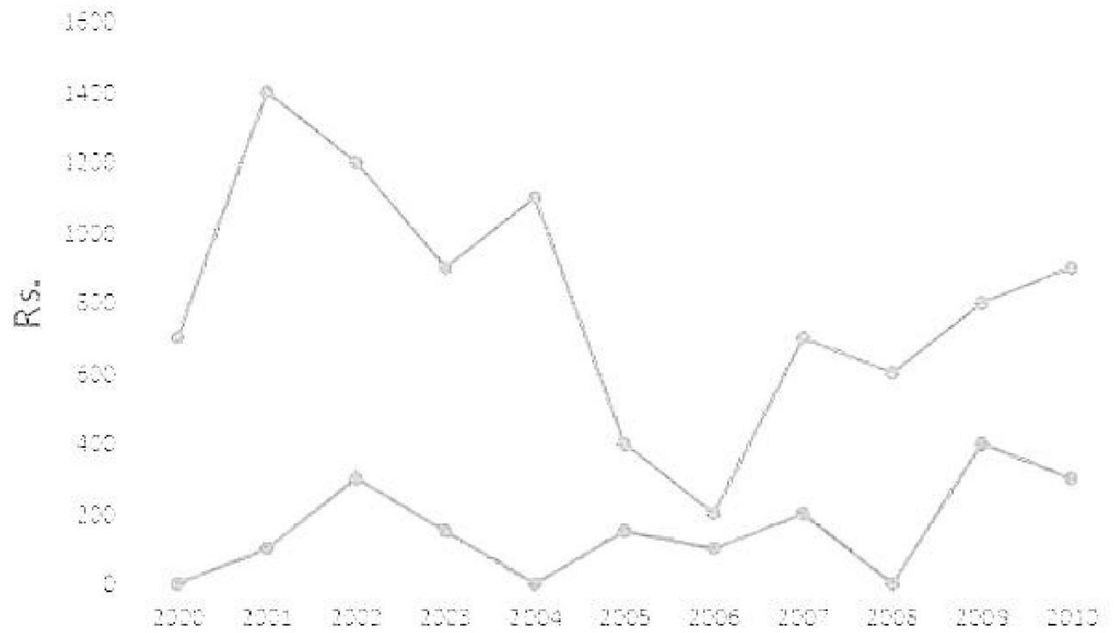
The absolute annual increase in exports from Brazil is lower than that of Japan in 2002.
Hence B is the answer.

Instructions

Answer the questions based on the following two graphs, assuming that there is no fixed cost component and all the units produced are sold in the same year.



Year wise graph of price of a unit



Year wise graph of revenue and total profit.

Question 81

In which year per unit cost is HIGHEST?

A 2002

B 2001

C 2005

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D 2007

Answer: B

Explanation:
Let's calculate No of Units as Revenue / Unit price.

Per Unit cost as (Revenue - Profit) / No of Units.

In that way, we calculate the table as follows.

Year	Unit price	Revenue	Profit	No of Units	Per Unit cost
2000	10	700	0	70	10
2001	14	1400	100	100	13
2002	12	1200	300	100	9
2003	12	900	150	75	10
2004	11	1100	0	100	11
2005	8	400	150	50	5
2006	10	200	100	20	5
2007	14	700	200	50	10
2008	10	600	0	60	10
2009	10	800	400	80	5
2010	15	900	300	60	10

It is clear from the table per unit cost in the year 2001 is the highest.

Hence B is the correct answer.

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Question 82

What is the approximate average quantity sold during the period 2000-2010?

A 64 units

B 70 units

C 77 units

D 81 units

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Answer: B

Explanation:
Let's calculate No of Units as Revenue / Unit price.

Per Unit cost as (Revenue - Profit) / No of Units.

In that way, we calculate the table as follows.

Year	Unit price	Revenue	Profit	No of Units	Per Unit cost
2000	10	700	0	70	10
2001	14	1400	100	100	13
2002	12	1200	300	100	9
2003	12	900	150	75	10
2004	11	1100	0	100	11
2005	8	400	150	50	5
2006	10	200	100	20	5
2007	14	700	200	50	10
2008	10	600	0	60	10
2009	10	800	400	80	5
2010	15	900	300	60	10

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Average quantity sold =Sum of the quantities sold / No of years.
=70+100+100+75+100+50+20+50+60+80+60/11

=69.5

=Approx 70

Hence B is the correct answer.

Question 83

If volatility of a variable during 2000-2010 is defined as $\frac{MaximumValue - MinimumValue}{AverageValue}$, then which of the following is TRUE ?

A Price per unit has highest volatility

B Cost per unit has highest volatility

C Total profit has highest volatility

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D Revenue has highest volatility

Answer: C

Explanation:
Let's calculate No of Units as Revenue / Unit price.

Per Unit cost as (Revenue - Profit) / No of Units.

In that way, we calculate the table as follows.

Year	Unit price	Revenue	Profit	No of Units	Per Unit cost
2000	10	700	0	70	10
2001	14	1400	100	100	13
2002	12	1200	300	100	9
2003	12	900	150	75	10
2004	11	1100	0	100	11
2005	8	400	150	50	5
2006	10	200	100	20	5
2007	14	700	200	50	10
2008	10	600	0	60	10
2009	10	800	400	80	5
2010	15	900	300	60	10

Let's solve the options one by one,

Option A : Volatility for price per unit : 14-8/11.45 = 0.524

Option B :Volatility for Cost per unit : 13-5/8.91 = 0.898

Option C:Volatility for Total profit : 400-0/154.54 = 2.588

Option D:Volatility for Revenue = 1400-200/809.1 = 1.48

Among the above values ,volatility for total profit is the highest .

Hence C is the correct answer.

Question 84

If the price per unit decreases by 20% during 2000-2004 and cost per unit increases by 20% during 2005-2010, then during how many number of years there is loss?

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A 3 years

B 4 years

C 5 years

D 7 years

Answer: C

Explanation:
Let's calculate No of Units as Revenue / Unit price.

Per Unit cost as (Revenue - Profit) / No of Units.

Costs Incurred = Revenue - Profit

If there is a percent 20 % increase in the cost price for year 2005-10 and the 20% decrease in price during 2000-2004.
In that way, we calculate the table as follows.

Year	Unitprice	Revenue	Units purchased	Profit	Costs Incurred	Costs per units	Effec. Unit price	Effec. Cost price	Effec. Profit
2000	10	700	70	0	700	10	8	10	-140
2001	14	1400	100	100	1300	13	12.2	13	-180
2002	12	1200	100	300	900	9	9.6	9	60
2003	12	900	75	150	750	10	9.6	10	-30
2004	11	1100	100	0	1100	11	8.8	11	-220
2005	8	400	50	150	250	5	8	6	100
2006	10	200	20	100	100	5	10	6	80
2007	14	700	50	200	500	10	14	12	100
2008	10	600	60	0	600	10	10	12	-120
2009	10	800	80	400	400	5	10	6	320
2010	15	900	60	300	600	10	15	12	180

The company will incur a loss if unit price is lesser than unit cost price.

Thus for 2000, 2001, 2003, 2004 and 2008 there will be net loss. For 5 years there was a loss.

Hence C is the correct answer.

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Question 85

If the price per unit decreases by 20% during 2000-2004 and cost per unit increases by 20% during 2005-2010, then the cumulative profit for the entire period 2000-2010 decreases by:

A Rs. 1650

B Rs. 1550

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C Rs. 1300

D Rs. 1250

Answer: B

Explanation:
Let's calculate No of Units as Revenue / Unit price.

Per Unit cost as (Revenue - Profit) / No of Units.

Costs Incurred = Revenue - Profit

In that way, we calculate the table as follows.

Year	Unitprice	Revenue	Units purchased	Profit	Costs Incurred	Costs per units	Effec. Unit price	Effec. Cost price	Effec. Profit
2000	10	700	70	0	700	10	8	10	-140
2001	14	1400	100	100	1300	13	12.2	13	-180
2002	12	1200	100	300	900	9	9.6	9	60
2003	12	900	75	150	750	10	9.6	10	-30
2004	11	1100	100	0	1100	11	8.8	11	-220
2005	8	400	50	150	250	5	8	6	100
2006	10	200	20	100	100	5	10	6	80
2007	14	700	50	200	500	10	14	12	100
2008	10	600	60	0	600	10	10	12	-120
2009	10	800	80	400	400	5	10	6	320
2010	15	900	60	300	600	10	15	12	180

Profit before the changes=1700

Profit after the changes= 150

Cumulative change in the profit = 1550

Hence B is the correct answer.

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Section IV

Instructions

Read the passage carefully and answer the questions given at the end of each passage:

Turning the business involved more than segmenting and pulling out of retail. It also meant maximizing every strength we had in order to boost our profit margins. In re-examining the direct model, we realized that inventory management was not just core strength; it could be an incredible opportunity for us, and one that had not yet been discovered by any of our competitors.

In Version 1.0 the direct model, we eliminated the reseller, thereby eliminating the mark-up and the cost of maintaining a store. In Version 1.1, we went one step further to reduce inventory inefficiencies. Traditionally, a long chain of partners was involved in getting a product to the customer. Let's say you have a factory building a PC we'll call model #4000. The system is then sent to the distributor, which sends it to the warehouse, which sends it to the dealer, who eventually pushes it on to the consumer by advertising, "I've got model #4000. Come and buy it." If the consumer says, "But I want model #8000," the dealer replies, "Sorry, I only have model #4000." Meanwhile, the factory keeps building model #4000s and pushing the inventory into the channel.

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The result is a glut of model #4000s that nobody wants. Inevitably, someone ends up with too much inventory, and you see big price corrections. The retailer can't sell it at the suggested retail price, so the manufacturer loses money on price protection (a practice common in our industry of compensating dealers for reductions in suggested selling price). Companies with long, multi-step distribution systems will often fill their distribution channels with products in an attempt to clear out older targets. This dangerous and inefficient practice is called "channel stuffing". Worst of all, the customer ends up paying for it by purchasing systems that are already out of date

Because we were building directly to fill our customers' orders, we didn't have finished goods inventory devaluing on a daily basis. Because we aligned our suppliers to deliver components as we used them, we were able to minimize raw material inventory. Reductions in component costs could be passed on to our customers quickly, which made them happier and improved our competitive advantage. It also allowed us to deliver the latest technology to our customers faster than our competitors.

The direct model turns conventional manufacturing inside out. Conventional manufacturing, because your plant can't keep going. But if you don't know what you need to build because of dramatic changes in demand, you run the risk of ending up with terrific amounts of excess and obsolete inventory. That is not the goal. The concept behind the direct model has nothing to do with stockpiling and everything to do with information. The quality of your information is inversely proportional to the amount of assets required, in this case excess inventory. With less information about customer needs, you need massive amounts of inventory. So, if you have great information – that is, you know exactly what people want and how much - you need that much less inventory. Less inventory, of course, corresponds to less inventory depreciation. In the computer industry, component prices are always falling as suppliers introduce faster chips, bigger disk drives and modems with ever-greater bandwidth. Let's say that Dell has six days of inventory. Compare that to an indirect competitor who has twenty-five days of inventory with another thirty in their distribution channel. That's a difference of forty-nine days, and in forty-nine days, the cost of materials will decline about 6 percent.

Then there's the threat of getting stuck with obsolete inventory if you're caught in a transition to a next- generation product, as we were with those memory chip in 1989. As the product approaches the end of its life, the manufacturer has to worry about whether it has too much in the channel and whether a competitor will dump products, destroying profit margins for everyone. This is a perpetual problem in the computer industry, but with the direct model, we have virtually eliminated it. We know when our customers are ready to move on technologically, and we can get out of the market before its most precarious time. We don't have to subsidize our losses by charging higher prices for other products.

And ultimately, our customer wins. Optimal inventory management really starts with the design process. You want to design the product so that the entire product supply chain, as well as the manufacturing process, is oriented not just for speed but for what we call velocity. Speed means being fast in the first place. Velocity means squeezing time out of every step in the process.

Inventory velocity has become a passion for us. To achieve maximum velocity, you have to design your products in a way that covers the largest part of the market with the fewest number of parts. For example, you don't need nine different disk drives when you can serve 98 percent of the market with only four. We also learned to take into account the variability of the lost cost and high cost components. Systems were reconfigured to allow for a greater variety of low-cost parts and a limited variety of expensive parts. The goal was to decrease the number of components to manage, which increased the velocity, which decreased the risk of inventory depreciation, which increased the overall health of our business system.

We were also able to reduce inventory well below the levels anyone thought possible by constantly challenging and surprising ourselves with the result. We had our internal skeptics when we first started pushing for ever-lower levels of inventory. I remember the head of our procurement group telling me that this was like "flying low to the ground 300 knots." He was worried that we wouldn't see the trees.

In 1993, we had $2.9 billion in sales and $220 million in inventory. Four years later, we posted $12.3 billion in sales and had inventory of $33 million. We're now down to six days of inventory and we're starting to measure it in hours instead of days. Once you reduce your inventory while maintaining your growth rate, a significant amount of risk comes from the transition from one generation of product to the next. Without traditional stockpiles of inventory, it is critical to precisely time the discontinuance of the older product line with the ramp-up in customer demand for the newer one. Since we were introducing new products all the time, it became imperative to avoid the huge drag effect from mistakes made during transitions. E&O; – short for "excess and obsolete" - became taboo at Dell. We would debate about whether our E&O; was 30 or 50 cent per PC. Since anything less than $20 per PC is not bad, when you're down in the cents range, you're approaching stellar performance.

Question 86

Find out the TRUE statement:

A According to the passage, the working of the direct model was being heavily exploited by all players in the software business.

B Analysis of the supply chain of the product reveals that the product is sent to the warehouse by the dealer, and any delay at that stage leads to an obvious increase in cost.

C The nature of the computer industry is such that the production decision at factory level is usually undertaken after getting the customer demand feedback from the distributors.

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D Whenever the production of some old- fashioned model of a product by a company exceeds the existing demand, the market forces create a downward pressure on its prices.

Answer: D

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Question 87

Find out the FALSE statement:

A The company mentioned in the passage could attain efficiency on raw material inventory management because they were procuring components only in line with their timely requirement.

B Generally the more the amount of quality information about the consumer needs and the market a firm possess, the less is its inventory requirement.

C In order to serve the market more efficiently, the firm mentioned here reconfigured their computers with increased proportion of low- cost parts and a fewer types of high-priced parts.

D The conventional manufacturing system always ensured that no competitor can lower prices to reduce profit margins for everybody.

Answer: D

Question 88

Choose the option which best matches the following sets:

1	Inventory	i	Precarious
2	Conventional Manufacturing	ii	Warehouse
3	Distributor	iii	Stockpile
4	Market	iv	Velocity

A 1 - iv, 2 - ii, 3 - i, 4 - iii

B 1 - iii, 2 - i, 3 - iv, 4 - ii

C 1 - iv, 2 - iii, 3 - ii, 4 - i

D 1 - iii, 2 - ii, 3 - iv, 4 - i

Answer: C

Explanation:
Inventory velocity has become a passion for us. Hence, we can say that (1 - iv) is a combination.

It is mentioned in the passage that 'We know when our customers are ready to move on technologically, and we can get out of the market before its most precarious'. Hence, we can say that (4 - i) is a combination. Hence, option C is the correct answer.

Question 89

Find out the FALSE Statement:

A Having less amount of inventory is better in the computer industry as with time better quality components with enhanced capacity reach the market with lower price.

B Before improving the inventory management system under the direct model, the firm first removed the reseller from its marketing model, which contributed in its cost-cutting attempt.

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C The efficient inventory management allowed the firm to enhance productivity as well as the flexibility to enter or exit a market.

D The companies with long distribution network incorporate information-gathering process within their systems which enable them to market products with latest available technologies.

Answer: D

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Instructions

Read the passage carefully and answer the questions given at the end of each passage:

My comrade and I had been quartered in Jamaica, and from there we had been drafting off to the British settlement of Belize, lying away west and north of the Mosquito Coast. At Belize there had been great alarm of one cruel gang of pirates (there were always more pirates than enough in those Caribbean Seas), and as they got the better of our English cruisers by running into out-of-the-way creeks and shallows, and taking the land when they were hotly pressed, the governor of Belize had received orders from home to keep a sharp look-out for them along shore. Now, there was an armed sloop came once a year from Port Royal, Jamaica, to the Island, laden with all manner of necessaries to eat, and to drink, and to wear, and to use in various ways; and it was aboard of that sloop which had touched at Belize, that I was standing, leaning over the bulwarks.

The Island was occupied by a very small English colony. It had been given the name of Silver-Store. The reason of its being so called, was, that the English colony owned and worked a silver-mine over on the mainland, in Honduras, and used this Island as a safe and convenient place to store their silver in, until it was annually fetched away by the sloop. It was brought down from the mine to the coast on the backs of mules, attended by friendly local people and guarded by white men; from thence it was conveyed over to Silver-Store, when the weather was fair, in the canoes of that country; from Silver-Store, it was carried to Jamaica by the armed sloop once a-year, as I have already mentioned; from Jamaica, it went, of course, all over the world.

How I came to be aboard the armed sloop is easily told. Four-and-twenty marines under command of a lieutenant - that officer's name was Linderwood - had been told off at Belize, to proceed to Silver-Store, in aid of boats and seamen stationed there for the chase of the Pirates. The Island was considered a good post of observation against the pirates, both by land and sea; neither the pirate ship nor yet her boats had been seen by any of us, but they had been so much heard of, that the reinforcement was sent. Of that party, I was one. It included a corporal and a sergeant. Charker was corporal, and the sergeant's name was Drooce. He was the most tyrannical non-commissioned officer in His Majesty's service.

The night came on, soon after I had had the foregoing words with Charker. All the wonderful bright colours went out of the sea and sky in a few minutes, and all the stars in the Heavens seemed to shine out together, and to look down at themselves in the sea, over one another's shoulders, millions deep.

Next morning, we cast anchor off the Island. There was a snug harbour within a little reef; there was a sandy beach; there were cocoa-nut trees with high straight stems, quite bare, and foliage at the top like plumes of magnificent green feathers; there were all the objects that are usually seen in those parts, and I am not going to describe them, having something else to tell about.

Great rejoicings, to be sure, were made on our arrival. All the flags in the place were hoisted, all the guns in the place were fired, and all the people in the place came down to look at us. One of the local people had come off outside the reef, to pilot us in, and remained on board after we had let go our anchor.

My officer, Lieutenant Linderwood, was as ill as the captain of the sloop, and was carried ashore, too. They were both young men of about my age, who had been delicate in the West India climate. I thought I was much fitter for the work than they were, and that if all of us had our deserts, I should be both of them rolled into one. (It may be imagined what sort of an officer of marines I should have made, without the power of reading a written order. And as to any knowledge how to command the sloop—Lord! I should have sunk her in a quarter of an hour!) However, such were my reflections; and when we men were ashore and dismissed, I strolled about the place along with Charker, making my observations in a similar spirit.

It was a pretty place: in all its arrangements partly South American and partly English, and very agreeable to look at on that account, being like a bit of home that had got chipped off and had floated away to that spot, accommodating itself to circumstances as it drifted along. The huts of the local people, to the number of five- and-twenty, perhaps, were down by the beach to the left of the anchorage. On the right was a sort of barrack, with a South American Flag and the Union Jack, flying from the same staff, where the little English colony could all come together, if they saw occasion. It was a walled square of building, with a sort of pleasure-ground inside, and inside that again a sunken block like a powder magazine, with a little square trench round it, and steps down to the door.

Charker and I were looking in at the gate, which was not guarded; and I had said to Charker, in reference to the bit like a powder magazine, "That's where they keep the silver you see;" and Charker had said to me, after thinking it over, "And silver ain't gold. Is it, Gill?"

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Question 90

Find out the TRUE statement:

A During the time of the narration, the total number of pirates at Belize was much more than the same in the Caribbean Seas.

B From the accounts presented here, when the narrator of the passage made the journey he already happened to be an experienced sailor with considerable navigating experiences

C The author and his friends used to consider Drooce as the most authoritarian non- commissioned officer in Her Majesty's service.

D While walking with Charker, the narrator came across a barrack like structure where all the English settlers could assemble and stay together, if there was any necessity for doing so.

Answer: D

Question 91

Find out the FALSE statement:

A According to the passage, the silver that was being stored in the place where the author went to was being mined in Honduras.

B The narrator noted that the silver was being transported from the mine to the coast on the backs of mules, after which it was being sent to Jamaica in a sloop, from where it was reaching various destinations.

C Although the sea-voyage near Belize was being threatened by the presence of one notorious pirate fleet, the captain of the patrolling ship was accompanied by less than thirty soldiers.

D The Island the author talks here about was considered to be a good point for surveillance against the pirates both by land and sea.

Answer: C

Question 92

Find out the TRUE Statement:

A The author was initially staying in Jamaica, which is located in the West and North of the Mosquito Coast.

B A casual review of the place by the narrator revealed that the store for keeping the silver was heavily guarded, fearing a possible pirate attack anytime.

C The narrator and his companion noticed the South American Flag and the Union Jack flying on the port office.

D When the ship entered the harbour, both its Captain and Lieutenant Linderwood was unwell as the West Indian climate was not suiting them.

Answer: D

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Question 93

Mark the FALSE statement:

A It was being difficult to capture the pirates because they either used to hide in uncommon waters whenever the patrolling ships were pursuing them or used to disembark and flee whenever severely chased.

B The local canoes were employed by the miners to bring the silver from the coast to the island during favourable climatic condition.

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C The lifestyle of the island was not exactly British as it had to adjust itself with the local South American culture, but the same seemed quite delightful for the narrator and his company.

D When Corporal Charker and Sergeant Gill were walking around the harbour, they noticed that the size of the settlement of the local people was not very large.

Answer: D

Instructions

Read the passage carefully and answer the questions given at the end of each passage:

We now come to the second part of our journey under the sea. The first ended with the moving scene in the coral cemetery which left a deep impression on my mind. I could no longer content myself with the theory which satisfied Conseil. That worthy fellow persisted in seeing in the Commander of the Nautilus one of those unknown servants who returns mankind contempt for indifference. For him, he was a misunderstood genius who, tired of earth's deceptions, had taken refuge in this inaccessible medium, where he might follow his instincts freely. To my mind, this explains but one side of Captain Nemo's character. Indeed, the mystery of that last night during which we had been chained in prison, the sleep, and the precaution so violently taken by the Captain of snatching from my eyes the glass I had raised to sweep the horizon, the mortal wound of the man, due to an unaccountable shock of the Nautilus, all put me on a new track. No; Captain Nemo was not satisfied with shunning man. His formidable apparatus not only suited his instinct of freedom, but perhaps also the design of some terrible retaliation.

That day, at noon, the second officer came to take the altitude of the sun. I mounted the platform, and watched the operation. As he was taking observations with the sextant, one of the sailors of the Nautilus (the strong man who had accompanied us on our first submarine excursion to the Island of Crespo) came to clean the glasses of the lantern. I examined the fittings of the apparatus, the strength of which was increased a hundredfold by lenticular rings, placed similar to those in a lighthouse, and which projected their brilliance in a horizontal plane. The electric lamp was combined in such a way as to give its most powerful light. Indeed, it was produced in vacuo, which insured both its steadiness and its intensity. This vacuum economized the graphite points between which the luminous arc was developed - an important point of economy for Captain Nemo, who could not easily have replaced them; and under these conditions their waste was imperceptible. When the Nautilus was ready to continue its submarine journey, I went down to the saloon. The panel was closed, and the course marked direct west.

We were furrowing the waters of the Indian Ocean, a vast liquid plain, with a surface of 1,200,000,000 of acres, and whose waters are so clear and transparent that any one leaning over them would turn giddy. The Nautilus usually floated between fifty and a hundred fathoms deep. We went on so for some days. To anyone but myself, who had a great love for the sea, the hours would have seemed long and monotonous; but the daily walks on the platform, when I steeped myself in the reviving air of the ocean, the sight of the rich waters through the windows of the saloon, the books in the library, the compiling of my memoirs, took up all my time, and left me not a moment of ennui or weariness.

From the 21 st to the 23 rd of January the Nautilus went at the rate of two hundred and fifty leagues in twenty- four hours, being five hundred and forty miles, or twenty-two miles an hour. If we recognized so many different varieties of fish, it was because, attracted by the electric light, they tried to follow us; the greater part, however, were soon distanced by our speed, though some kept their place in the waters of the Nautilus for a time. The morning of the 24 th , we observed Keeling Island, a coral formation, planted with magnificent cocos, and which had been visited by Mr. Darwin and Captain Fitzroy. The Nautilus skirted the shores of this desert island for a little distance. Soon Keeling Island disappeared from the horizon, and our course was directed to the north- west in the direction of the Indian Peninsula.

From Keeling Island our course was slower and more variable, often taking us into great depths. Several times they made use of the inclined planes, which certain internal levers placed obliquely to the waterline. I observed that in the upper regions the water was always colder in the high levels than at the surface of the sea. On the 25th of January the ocean was entirely deserted; the Nautilus passed the day on the surface, beating the waves with its powerful screw and making them rebound to a great height. Three parts of this day I spent on the platform. I watched the sea. Nothing on the horizon till about four o'clock then there was a steamer running west on our counter. Her masts were visible for an instant, but she could not see the Nautilus, being too low in the water. I fancied this steamboat belonged to the P.O. Company, which runs from Ceylon to Sydney, touching at King George's Point and Melbourne.

At five o'clock in the evening, before that fleeting twilight which binds night to day in tropical zones, Conseil and I were astonished by a curious spectacle. It was a shoal of Argonauts travelling along on the surface of the ocean. We could count several hundreds. These graceful molluscs moved backwards by means of their locomotive tube, through which they propelled the water already drawn in. Of their eight tentacles, six were elongated, and stretched out floating on the water, whilst the other two, rolled up flat, were spread to the wing like a light sail. I saw their spiral-shaped and fluted shells, which Cuvier justly compares to an elegant skiff. For nearly an hour the Nautilus floated in the midst of this shoal of molluscs.

The next day, 26 th of January, we cut the equator at the eighty-second meridian and entered the northern hemisphere. During the day a formidable troop of sharks accompanied us. They were "cestracio philippi" sharks, with brown backs and whitish bellies, armed with eleven rows of teeth, their throat being marked with a large black spot surrounded with white like an eye. There were also some Isabella sharks, with rounded snouts marked with dark spots. These powerful creatures often hurled themselves a

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with such violence as to make us feel very insecure. But the Nautilus, accelerating her speed, easily left the most rapid of them behind.

About seven o'clock in the evening, the Nautilus, half- immersed, was sailing in a sea of milk. At first sight the ocean seemed lactified. Was it the effect of the lunar rays? No; for the moon, scarcely two days old, was still lying hidden under the horizon in the rays of the sun. The whole sky, though lit by the sidereal rays, seemed black by contrast with the whiteness of the waters. Conseil could not believe his eyes, and questioned me as to the cause of this strange phenomenon. Happily I was able to answer him.

"It is called a milk sea," I explained. "A large extent of white waves is often to be seen on the coasts of Amboyna, and in these parts of the sea." "But, sir," said Conseil, "can you tell me what causes such an effect? For I suppose the water is not really turned into milk." "No, my boy; and the whiteness which surprises you is caused only by the presence of myriads of luminous little worm, gelatinous and without colour, of the thickness of a hair, and whose length is not more than seven-thousandths of an inch. These insects adhere to one another sometimes for several leagues."

"Several leagues!" exclaimed Conseil.

"Yes, my boy; and you need not try to compute the number of these infusoria. You will not be able, for, if I am not mistaken, ships have floated on these milk seas for more than forty miles."

Towards midnight the sea suddenly resumed its usual colour; but behind us, even to the limits of the horizon, the sky reflected the whitened waves, and for a long time seemed impregnated with the vague glimmerings of an aurora borealis

Question 94

Find the TRUE Sentence:

A According to the narrator, the above- mentioned journey was taking place during full moon period.

B According to Conseil, the Captain of the Nautilus in which they were travelling was really a brilliant person, a fact which had been corroborated by many people.

C It is implied from the passage that although the author was witnessing many interesting events during their journey, he was not always having his way.

D From the chronicle, it is understood that the Nautilus was in the vicinity of the Island of Crespo on the 25 of January.

Answer: C

Question 95

Find the FALSE sentence:

A After entering the Northern Hemisphere, the narrator witnessed several sea creatures, including several varieties of sharks, who kept bumping on the windows of the submarine.

B On 25 th January, the second officer of Nautilus came to the platform for measuring the altitude of the sun and for that purpose took observations with the sextant.

C After January 24 th , Nautilus started travelling at a relatively reduced speed, and some of the time it was going further away from the sea- surface.

D The course of Nautilus took them near the Keeling Island, which had earlier been visited by Mr. Darwin and Captain Fitzroy.

Answer: B

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Question 96

Match the following:

1	Molluscus	i	Colourless
2	Sharks	ii	Tentacles
3	Infusia	iii	Coco
4	Coral	iv	Snouts

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A 1-ii, 2-iv, 3-i, 4-iii.

B 1-iii, 2-i, 3- iv, 4-ii.

C 1-iv, 2-iii, 3-ii, 4-i.

D 1-iii, 2-ii, 3-iv, 4-i.

Answer: A

Explanation:
It is given that "These graceful molluscs moved backwards by means of their locomotive tube, through which they propelled the water already drawn in. Of their eight tentacles, six were elongated, and stretched out floating on the water, whilst the other two, rolled up flat, were spread to the wing like a light sail." Hence, we can say that (1- ii) is a correct combination.

Sharks and snouts are linked in seventh para. Coral formation with cocos is mentioned in the 4th paragraph.
Insufia being colorless is stated in eleventh para. Hence, option A is the correct answer.

Question 97

Find the TRUE statement:

A During 22 nd to 24 th of January, Nautilus was travelling at the rate of two hundred and fifty leagues in twenty-four hours, which means a speed of twenty-two miles an hour.

B On 26 th January for approximately an hour the narrator witnessed a shoal of molluscs, and he enjoyed watching their spiral-shaped and fluted shells.

C On the 25 th of January the narrator came across a steamboat, which was owned by PO Company, which travels between Ceylon to Sydney.

D The electric lamp of the submarine was an example of efficiency and effective fixtures.

Answer: D

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Section V

Instructions

Find the most appropriate word from the given choices which is described by the meaning provided in the question.

Question 98

Meaning: a bowl-shaped drinking vessel

A rumble

B fracas

C aquifer

D chalice

Answer: D

Explanation:
A 'rumble' is a term used to describe a deep, resonant sound.
A 'fracas' is a term used to describe a quarrel.
An 'aquifer' is a term used to describe the underground water or water table.
'Chalice' is a term used to describe a big bowl. Therefore, option D is the right answer.

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Question 99

Meaning: definition of a substance, especially a strong acid; erosive; mordant.

A vitriolic

B briny

C puerile

D prophylactic

Answer: A

Explanation:
'Briny' is a term used to describe salty water.
'Puerile' is a term used to describe something that is childish by nature.
'Prophylactic' means to do something as a prevention anticipating something.
'Vitriolic' means acidic or bitter.

Therefore, option A is the right answer.

Question 100

Meaning: an upward slope or grade (as in a road); rise; raise; climb; upgrade.

A maelstrom

B acclivity

C alacrity

D slighting

Answer: B

Explanation:
Maelstorm is a term used to describe a violent situation.

Alacrity is a term used to denote eagerness.

Slighting means disparaging.

Acclivity means an upward slope. Therefore, option B is the right answer.

Instructions

Select the most appropriate word(s) from the given choices to fill the blank(s).

Question 101

Justice Minister Bola Ige, confronted with the general incivility of local police, placed a _____ on the cads. Said the Hon. Bola Ige, "I pray that God will make big holes in their pockets."

A malediction

B sanction

C proscription

D plea

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Answer: A

Explanation:
We can infer that the Justice is annoyed by the local cops and wishes that they suffer.
Let us evaluate the options.
Plea means to request. The Justice is not placing a request. He is cursing the local cops. Therefore, we can eliminate this option.
Sanction means to place a penalty. From the statement, we can infer that the author is not talking about a legal recourse. We can eliminate option A as well.
Proscription means to prohibit. 'Prohibit' does not fit in well with the context of the given sentence since the Justice did not prohibit the cops from doing something.
Malediction is a term used to indicate a curse. This word fits in the blank given in the sentence. Therefore, option A is the right answer.

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Question 102

I ____i____ that he will pass his exam and get a good job. I will make a ____ii____ .There will be a new government in less than a year.

A i. prophecy ii. prophesy

B i. prophesy ii. prophecy

C i. prophecy ii. prophecy

D i. prophesy ii. prophesy

Answer: B

Explanation:
The first blank should be filled by a verb since the sentence states that I foretell that he will pass. 'Prophesy' is a verb.
The second blank should be filled by a noun since the term 'make' has been used already. 'Prophecy' is a noun.

Therefore, option B is the right answer.

Question 103

Imagine an _____ public figure attacked by press and public, who is facing an inquiry into allegations of having obtained money by deception.

A empowered

B endangered

C embattled

D engrossed

Answer: C

Explanation:
From the given statement, we can infer that the public figure is in a turmoil.

'Endangered' means in grave danger or vulnerable to extinction.
'Engrossed' means to be deeply engaged in something (like in thoughts or reading a book).

We can eliminate these options since they deviate from the main theme of the statement.

'Empowered' means to be in a position of authority.
'Embattled' is a term used to describe someone in a hostile situation.

Between these 2 words, embattled is a better term to be used since it has been given that the person is in turmoil. Therefore, option C is the right answer.

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Question 104

His listeners enjoyed his ____ wit but his victims often _____ at its satire.

A lugubrious, suffered

B bitter, smarted

C lugubrious, smiled

D trenchant, winced

Answer: D

Explanation:
The sentence intends to convey that the person's listeners (or fans) enjoyed his wit but his victims hated the same.
Lugubrious means sad. Trenchant means incisive.
Among lugubrious, bitter and trenchant, trenchant is a better word.

The word that fills the second blank should mean that his victims did not like the satire.
'Wince' is the correct term to be used in this context.

The person discussed makes incisive comments. Though people enjoy it, the victims hate the same. Therefore, option D is the right answer.

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Instructions

In each of the following sentences, part or the entire sentence is underlined. The answer-choices offer four ways of phrasing the underlined part. If you think the original sentence is better than the alternatives, choose 1 which merely repeats the underlined part; otherwise choose one of the alternatives.

Question 105

Had the President's Administration not lost the vote on the budget reduction package, his first year in office would have been rated an A.

A Had the President's Administration not lost the vote on the budget reduction package, his first year in office would have been rated an A.

B Had the President's Administration not lost the vote on the budget reduction package, it would have been rated an A in the first year.

C If the President had not lost the vote on the budget reductionn package, the Administration's first year in office would have been rated an A

D Had the President's Administration not lost the vote on its budget reduction package, his first year in office would have been rated an A.

Answer: B

Question 106

The rise in negative attitudes toward foreigners indicate that the country is becoming less tolerant, and therefore that the opportunities are ripe for extremist groups to exploit the illegal immigration problem.

A indicate that the country is becoming less tolerant, and therefore that

B indicates that the country is becoming less tolerant, and therefore

C indicates that the country is becoming less tolerant, and therefore that

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D indicates that the country has become less tolerant, and therefore

Answer: B

Explanation:
The subject 'The rise' is singular. Therefore, it should be 'indicates'. Hence, option A is not the correct answer.

We can directly rule out option C as it contains 'that' after therefore.

Between option B and D, the former is better as this shows a progressive process. As the period can't be defined. Hence, option B is the correct answer.

Question 107

This century began with war brewing in Europe, the industrial revolution well- established, and a nascent communication age .

A war brewing in Europe, the industrial revolution well-established, and a nascent communication age.

B war brewing in Europe. The industrial revolution surging, and a nascent communication age.

C war brewing in Europe, the industrial revolution well-established, and the communication age beginning.

D war brewing in Europe. The industrial revolution well-established, and saw the birth of the communication age.

Answer: C

Explanation:
This question is about the parallelism. The parallel structure ""noun+adjective" has to be maintained across.

war brewing - noun+adjective
industrial revolution well-established - noun+adjective
communication age beginning - noun+adjective

Therefore, option C is the correct answer.

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Question 108

Due to the chemical spill, the commute into the city will be delayed by as much as 2 hours.

A Due to the chemical spill, the commute into the city will be delayed by as much as 2 hours.

B The chemical spill will be delaying the commute into the city by as much as 2 hours.

C Due to the chemical spill, the commute into the city had been delayed by as much as 2 hours.

D Because of the chemical spill, the commute into the city will be delayed by as much as 2 hours.

Answer: A

Instructions

Select the option which is having similar analogy vis-a-vis the analogy given in the question.

Question 109

TRAVESTY; PARAGON ::

A autonomy: subordination

B disqualification: ineptitude

C sentinel: creed

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D conundrum: accountability

Answer: A

Explanation:
TRAVESTY is a term used to describe something absurd or distorted.
PARAGON is used to describe a thing or a person that epitomizes a quality.

The given words are opposite in meaning.

Option B:
Disqualification and Ineptitude (lack of ability to do something) cannot be termed as antonyms.

Option C:
A sentinel is a term used to describe a person whose duty is to watch something.
A creed is a term used to describe a system of beliefs, especially religious ones.

The 2 words are unrelated to each other.

Option D:

Conundrum is a term used to describe a difficult problem.
Accountability is expecting a person to be responsible for his actions.

The 2 words are unrelated.

Option A:

Autonomy means to do one's work without taking orders from others.
Subordination means to follow the orders given.

The 2 words are antonyms. Therefore, option A is the right answer.

Question 110

CONTRITE: OBDURATE ::

A grievous: lamentable

B aphoristic:esoteric

C sophisticated:cultured

D favourable:assenting

Answer: B

Explanation:
Contrite means to be regret one's action. Obdurate means to refuse to change one's views. The 2 words are antonyms.

Let us evaluate the options.

Option A:
Grievous means to do something bad and severe.
Lamentable is a term used to denote that the action is bad or deplorable.

The 2 words are synonymous.

Option C:
Sophisticated is a term used to describe a high degree of development.

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Cultured and sophisticated cannot be termed antonyms.

Option D:
Assenting means to give the nod. Favourable and assenting cannot be termed opposite in meaning.

Option B:
Aphoristic is a term used to describe that the claim is a general truth or widely accepted.
Esoteric is a term used to denote something that is understood by a limited set of people.

The 2 terms are opposite in meaning and hence, option B is the right answer.

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Question 111

PECCADILLO: FLAW ::

A clandestine: openness

B nick: score

C forensics: judiciary

D invasion: putsch

Answer: B

Explanation:
Peccadillo is a term used to describe a minor fault. The given words are synonymous. The second word is a bit severe in degree as compared to the first one.
'Clandestine' means to do something secretly. Clandestine and openness are antonyms. We can eliminate option A.
Forensics is used to refer to the team that preserves evidence and analyzes them. The function of a judiciary is to hear and judge cases. We cannot establish a relationship between the 2 terms.
An invasion means to attack a country from outside. A Putsch is a term used to describe a coup. The 2 terms cannot be said to be synonymous.

A 'nick' is a term used to describe a small cut or a small quantity. A 'score' is a term used to describe a cut or a scratch on the surface. Therefore, option B is the right answer.

Question 112

MUTTER: INDISTINCT ::

A define: easy

B blunder: polished

C articulate: well-spoken

D expedite: completed

Answer: C

Explanation:
A mutter is a term used to describe a sound that is barely audible. Indistinct also means the same (i.e, too low in volume to figure out the meaning). The terms given are synonyms.

Define and easy are unrelated terms.
Blunder means to commit a big mistake. Blunder and polished are unrelated terms.
Expedite means to increase the pace of something. Expedite and completed are not related.
Articulate is a term used to describe someone who communicates effectively. Well-spoken also means the same. Articulate and well-spoken are synonyms. Therefore, option C is the right answer.

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Instructions

Select the most OPPOSITE of the given word from the given choices.

Question 113

REQUIEM

A Humility

B Prerequisite

C Resolution

D Reign

E None of these

Answer: E

Explanation:
A requiem is a term used to describe a token of remembrance.

Humility means to be modest of one's achievements.
Prerequisite is a term used to describe the minimum qualification to be fulfilled to be considered eligible for something.
Resolution is a term used to describe a firm belief.
Reign is a term used to describe a period of rule by a King or Monarch.

None of the words given in the options are similar in meaning to requiem. Therefore, option E is the right answer.

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Question 114

ASPERSION

A Infamy

B Restriction

C Tradition

D Obeisance

E None of the above

Answer: D

Explanation:
Aspersion means to tarnish someone's reputation.
Infamy also means the same.
Restriction and tradition are unrelated to the given word.
Obeisance means to show revere someone or to show deferential respect.

As we can see, obeisance and aspersion are opposite in meaning. Hence, option D is the right answer.

Question 115

STOLIDITY

A Posterity

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B Proximity

C Agility

D Sobriety

Answer: D

Explanation:
Stolidity means to be unmoved or resolute (in a negative sense) without listening to the arguments.
Posterity means 'for the future'.
Proximity is a term used to describe how near a place is with reference to something.
Agility is a term used to describe the ability to move quickly.
Sobriety is a term used to describe the state of being sober or to process thing rationally.

Sobriety is opposite in meaning to stolidity. Therefore, option D is the right answer.

Instructions

A number of sentences are given below which, when properly sequenced form a COHERENT PARAGRAPH. Choose the most LOGICAL ORDER of sentences from the choices given to construct a COHERENT PARAGRAPH.

Question 116

I. The economy's performance in expenditure terms was even poorer with real GDP contracting by 0.6% after a gain of 0.5% in the October-December quarter.
II. On an output basis—the government's preferred measure because it is less volatile thin expenditure-based GDP—the economy contracted by 0.3% in real terms from the previous quarter.
III. Data from Statistics New Zealand, a government agency, published on June 27th show an almost uniformly abysmal economic performance in January-March 2008.
IV. This was the first contraction since late 2005, made worse by the fact that the previous quarter's growth rate was revised down from 1% to 0.8%.

A III, IV, II, I

B I, II, III, IV

C III, II, IV, I

D I, III, II, IV

Answer: C

Explanation:
By going option choices we can see that either statement I or III is an opening sentence. But in statement I, it is given that "the economy's performance in expenditure terms was even poorer with real GDP" i.e. there should be preceding sentence that's the whole reason of comparison.

The contraction that is being talked in statement IV is mentioned in statement II. Hence, we can say that statement II and IV is a mandatory pair. Therefore, we can say that option C is the correct answer.

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Question 117

I. Matti Meri, a teacher-trainer at Helsinki University, was a teacher at the time.
II. By the time comprehensives reached the more populous south, teachers were eager to join in what was clearly a roaring success.
III. "Grammar-school teachers were quite afraid of the reforms," he recalls.
IV. "They used to teach only one-third of the students. But the comprehensive schools used almost the same curriculum as the grammar schools had—and we discovered that the two- thirds were mostly able to cope with it."
V. Comprehensive schools were introduced in 1972 in the sparsely populated north, and then over the next four years in the rest of the country.

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A V, I, III, IV, II

B I, II, III, IV, V

C V, I, II, IV, III

D I, III, II,IV, V

Answer: A

Explanation:
Statement I talks about some time frame "at the time". Hence, it can't be an opening sentence. The time frame mentioned in statement I is given in statement V (year 1997) . Therefore, we can say that V, I is a mandatory pair.

"Grammar-school teachers were quite afraid of the reforms," he recalls. Here, word 'he' refers to Matti Meri, therefore, we can say that statement I and III are mandatory pairs. Therefore, option A is the correct answer.

Question 118

I. "It is a clear illustration of the major role played by diet and culture on your risk of chronic disorders," he says.
II. Little is known about its effects, but changing its levels, possibly through diet or with different gut bacteria, might help to control high blood pressure.
III. Chinese and Japanese people are very similar at a genetic level, but Dr Nicholson found big differences in the type and variety of metabolites in their blood and urine.
IV. "Metabolomics can provide very specific pointers as to what is going wrong and new ways of intervening."
V. For instance, he found an unexpected metabolic marker, called formate that seems to have a role in regulating blood pressure.

A III, II, IV, I, V

B III, IV, V, I, II

C II, III, IV, I, V

D III, I, IV, V, II

Answer: D

Explanation:
Statement II can't be the opening statement as "its effects" refers to something. Therefore, we can say that sentence III is the opening statement.

Statement I and IV are spoken by the same person (Dr Nicholson). Therefore, they should be together.

The metabolic marker which is mentioned in the statement V is introduced in statement IV. Hence, we can say that IV and V is a mandatory pair.

Hence, we can say that option D is the correct answer.

Instructions
For the following questions answer them individually

Question 119

There are four sentences S1, S2, S3, S4 where the underlined word is used either correctly or incorrectly. Choose the option which lists the sentences, where the underlined word is used correctly.
S1. Only 22% of the people voted. The rest were totally disinterested.
S2. The management and the union asked a completely disinterested party to mediate between them.
S3. I don't know why he didn't go to the exhibition. Perhaps he was too busy or just disinterested.
S4. France's intervention in the dispute was not entirely disinterested. It gave her increased power and influence in the area.

A S1, S2, S4.

B S2, S3, S4.

C S1, S4.

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D S2, S4.

Answer: D

Explanation:
'disinterested' here means 'not interested' in an unbiased manner. So we have to identify sentences where the context meaning is unbiased.

In sentence 2, the third party mediate will be disinterested.
In sentence 4, the author wants to highlight the point that France's intervention in the dispute was not entirely disinterested. I.e. this is also a correct option choice.

Hence, option D is the correct answer.

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Question 120

There are four sentences S1, S2, S3, S4 where the underlined phrase is used either correctly or incorrectly. Choose the option which lists the sentences, where the underlined phrase is used correctly.
S1. Good Lord, I'm not rich! on the contrary, I'm constantly in debt.
S2. She's very intelligent, but on the contrary she's apt to be impatient.
S3. Yes, it's a very cosmopolitan city. On the contrary, it's very expensive.
S4. I don't think he'll pass the exam. On the contrary, I think he'll almost certainly fail.

A S1, S2, S4

B S2, S4

C S1, S4

D S2, S3

Answer: C

Explanation:
Section VI

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Section VI

Instructions
For the following questions answer them individually

Question 121

Which of the following country is not a member of G8 group of countries?

A United Kingdom

B China

C Germany

D Canada

Answer: B

Explanation:
G8 group of countries: France, Germany, Italy, Japan, the United Kingdom, and the United States, Canada and Russia.

Hence, option B is the correct answer.

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Question 122

Which prominent intergovernmental organization launched the movement, 'Education For All' (EFA):

A UNCTAD

B UNIDO

C UNDP

D UNESCO

Answer: D

Explanation:
Education For All (EFA) is a global movement led by UNESCO (United Nation Educational, Scientific and Cultural Organization), aiming to meet the learning needs of all children, youth and adults by 2015.

Question 123

Which of the following country is a member of OECD group?

A Venezuela

B Brazil

C Mexico

D South Africa

Answer: C

Explanation:
The Organisation for Economic Co-operation and Development is an intergovernmental economic organisation with 36 member countries, founded in 1961 to stimulate economic progress and world trade. It is a forum of countries describing themselves as committed to democracy and the market economy, providing a platform to compare policy experiences, seeking answers to common problems, identify good practices and coordinate domestic and international policies of its members.

Mexico is a member of OECD group.

Question 124

Select the correct Year - Olympic host cities match:

	Year		Olympic host cities
1	1976	i	London
2	1992	ii	Tokyo
3	1964	iii	Montreal
4	2012	iv	Barcelona

A 1-ii, 2-iii, 3-iv, 4-i

B 1-iii, 2-i, 3-iv, 4-ii

C 1-iv, 2-ii, 3-i, 4-iii

D 1-iii, 2-iv, 3-ii, 4-i

Answer: D

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Explanation:
1964 - Tokyo

1976 - Montreal

1992 - Barcelona

2012 - London

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Question 125

Select the correct IPL Franchise - Owner match:

	IPL Franchise		Owner
1	Mumbai Indians	i	UB group
2	Royal Challengers	ii	GMR Holdings
3	Chennai Super	iii	Reliance
4	Delhi Daredevils	iv	India Cements

A 1-ii, 2-iii, 3-iv, 4-I

B 1-iii, 2-i, 3-iv, 4-ii

C 1-iv, 2-ii, 3-i, 4-iii

D 1-iii, 2-iv, 3-ii, 4-i

Answer: B

Explanation:
Mumbai Indians: Founded in 2008, Mumbai Indians play in the Indian Premier League (IPL). The team is owned by India's biggest conglomerate, Reliance Industries, through its 100% subsidiary IndiaWin Sports.

Royal Challengers: Royal Challenger Banglore is currently owned by United Breweries Group.

Chennai Super Kings: India Cements acquired the rights to the franchise for 10 years. Former ICC Chairman N. Srinivasanwas the de facto owner of the Chennai Super Kings, by means of his position as the vice-chairman and managing director of India Cements Ltd.

The Delhi Daredevils (often abbreviated as DD) are a franchise cricket team representing the city of Delhi in the Indian Premier League (IPL). Founded in 2008 one of the eight founding teams of the IPL, the Delhi franchise is owned by the GMR Group and JSW Group.

Question 126

Which of the following country is not a member of Nuclear Suppliers Group?

A Belarus

B Malta

C Turkey

D Albania

Answer: D

Explanation:
Albania is not a member of Nuclear Suppliers Group (NSG).

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Question 127

Select the correct Bharat Ratna recipient-Year match:

	Bharat Ratna recipients		Year
1	Pandit Ravi Shankar	i	1992
2	Ustad Bismillah Khan	ii	1999
3	M S Subbulakshmi	iii	2001
4	Satyajit Ray	iv	1998

A 1-ii, 2-iii, 3-iv, 4-i

B 1-iii, 2-i, 3-iv, 4-ii

C 1 -iv, 2-ii, 3-i, 4-iii

D 1-iii, 2-iv, 3-ii, 4-i

Answer: A

Explanation:
Pandit Ravi Shanker was awarded by Bharat Ratna in 1999.

Ustad Bismillah Khan was awarded by Bharat Ratna in 2001.

M S Subbulakshmi was awarded by Bharat Ratna in 1998.

Satyajit Ray was awarded by Bharat Ratna in 1992.

Therefore, option A is the correct answer.

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Question 128

Select the match:

	Country	River	Currency
1	Nigeria	Benue	Naira
2	South Korea	Nakdong	Won
3	Colombia	Magdalena	Peso
4	Malaysia	Siouguluan	Ringgit

A 1

B 2

C 3

D 4

Answer: D

Explanation:
Nigeria's currency is Naira. The Benue River, previously known as the Chadda River or Tchadda, is the major tributary of the Niger River. The river is approximately 1,400 kilometres long and is almost entirely navigable during the summer months. As a result, it is an important transportation route in the regions through which it flows. Hence, option A is a correct match.

South Korea's currency is South Korean won. The Nakdong River or Nakdonggang is the longest river in South Korea, and passes through major cities such as Daegu and Busan. Hence, option B is a correct match.

Colombia's currency is Colombian peso. The Magdalena River is the principal river of Colombia, flowing n

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kilometres through the western half of the country. Hence, option C is a correct match.

Malaysia's currency is Malaysian ringgit. The Xiuguluan River is a river in southeastern Taiwan. Hence, this is an incorrect match. Moreover, River's name is written incorrectly.

Question 129

Select the WRONG International Organization - Location of Headquarter - Country match:

	International Organization	Location of Headquarter	Country
1	International Atomic Energy Agency	Vienna	Austria
2	World Health Organization	Geneva	Switzerland
3	International Monetary Fund	New York	USA
4	International Court of Justice	The Hague	Netherlands

A L

B L2

C L3

D L4

Answer: C

Explanation:
International Atomic Energy Agency - Vienna, Austria

World Health Organization (WHO) - Geneva, Switzerland

International Monetary Fund (IMF) - Washington DC, US

International Court of Justice - The Hague, The Netherland

Question 130

Select the WRONG Venue of Hockey World Cup - Year - Winner match:

	Venue of Hockey World Cup	Year	Winner
1	Kuala Lumpur	1975	India
2	London	1986	Australia
3	Sydney	1994	Netherlands
4	Monchengladbach	2006	Germany

A L

B L2

C L3

D L4

Answer: C

Explanation:
1975 - Kuala Lumpur, Malaysia - India

1986 - London, England - Australia

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1994 - Sydney, Australia - Pakistan

2006 - Mönchengladbach, Germany - Germany

Hence, we can say that option C is the correct answer.

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Question 131

Select the WRONG Book - Author match:

	Book	Author (s)
1	The Google Story	David A. Vise and Mark Malseed
2	Accidental Empires: How the Boys of Silicon Valley Make Their Millions, Battle Foreign Competition, and Still Can't Get a Date	Robert X. Kennedy
3	The Monk Who Sold HisFerrari	Robin S Sharma
4	Freakonomics: A Rogue Economist Explores the Hidden Side of Everything	Steven Levitt and Stephen J. Dubner

A L

B L2

C L3

D L4

Answer: B

Explanation:
The Google Story is a book by David Vise and Mark Malseed that takes an in-depth look who founded the company and why it is unique.

Accidental Empires: How the Boys of Silicon Valley Make Their Millions, Battle Foreign Competition, and Still Can't Get a Date (1992, 1996), is a book written by Mark Stephens under the pen name **Robert X. Cringely** about the founding of the personal computer industry and the history of Silicon Valley.

The Monk Who Sold His Ferrari is a self-help book by Robin Sharma, a writer and motivational speaker. The book is a business fable derived from Sharma's personal experiences after leaving his career as a litigation lawyer at the age of 25.

Freakonomics: A Rogue Economist Explores the Hidden Side of Everything is the debut non-fiction book by University of Chicago economist Steven Levitt and New York Times journalist Stephen J. Dubner.

Hence, option B is the correct answer.

Question 132

Select the WRONG Country - Name of Parliament match:

	Country	Name of Parliament
1	Iran	Majlis
2	Norway	Riksdag
3	Tanzania	Bunge
4	Israel	Knesset

A Row 1

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B Row 2

C Row 3

D Row 4

Answer: B

Explanation:
The Islamic Consultative Assembly, also called the Iranian Parliament, the Iranian Majlis, is the national legislative body of Iran.

The Storting is the supreme legislature of Norway, established in 1814 by the Constitution of Norway. It is located in Oslo.

The National Assembly of Tanzania (Swahili: Bunge la Tanzania) and the President of the United Republic make up the Parliament of Tanzania. The current Speaker of the National Assembly is Job Ndugai, who presides over a unicameral assembly of 393 members.

Knesset, (Hebrew: "Assembly") unicameral parliament of Israel and supreme authority of that state. On Feb. 16, 1949, the Constituent Assembly—elected in January of that year to prepare the country's constitution—ratified the Transition Law and reconstituted itself as the First Knesset.

Hence, we can say that Row 2 is an incorrect match.

Question 133

Which of the following books has been authored by P. Chidambaram?

A View from the outside: Why good economics works for everyone

B Propelling India from Socialist Stagnation to Global Power

C Interpreting the Indian Economy

D Strategic consequences of India's economic performance

Answer: A

Explanation:
A View from the Outside: Why Good Economics Works for Everyone is written by P. Chidambaram.

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Question 134

Which of the treaty was signed amongst the European nations for entering into the monetary union?

A Treaty of Nice

B Treaty of Versailles

C Maastricht Treaty

D Treaty of Paris.

Answer: C

Explanation:
The Maastricht Treaty was approved by heads of government of the states making up the European Community (EC) in December 1991. The treaty required voters in each country to approve the European Union, which proved to be a hotly debated topic in many areas. The agreement took ended with the creation of the European Union and has since been amended by other treaties. The Maastricht Treaty was signed on February 7, 1992, by the leaders of 12 member nations (Belgium, Italy, Luxembourg, France, Netherlands, West Germany, Denmark, Ireland, United Kingdom, Greece, Portugal and Spain). The treaty entered into force November 1, 1993.

Question 135

Which of the following Indian automobile major has a tie-up with a German insurer?

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A Hindustan Motors

B Maruti

C Bajaj

D Ashok Leyland

Answer: C

Explanation:
Bajaj Allianz General Insurance Company Limited is a joint venture between Bajaj Auto Limited and Allianz AG of Germany. Incorporated on September 19, 2000, Bajaj Allianz General Insurance Company received the Insurance Regulatory and Development Authority certificate of Registration on May 2, 2001 to conduct general insurance business (including health insurance business) in India. The company has an authorised and paid up capital of Rs 110 crores.

Question 136

Which Indian company has acquired General Chemical Industrial Products Inc. of USA in 2008?

A Tata Chemicals

B Mody Chemical Industries

C Gujarat Heavy Chemicals Ltd

D Hindustan Chemicals

Answer: A

Explanation:
Tata Chemicals (TCL), part of the Tata group, has entered into definitive agreements to acquire the soda ash business of General Chemical Industrial Products Inc (GCIP), a US based chemical company, for US$1,005 million. Harbinger Capital Partners is GCIP's majority shareholder. The transaction is subject to shareholder and regulatory approvals.

GCIP's subsidiary, General Chemical (soda ash) Partners (GCSAP), is a significant soda ash producer in the US with a capacity of 2.5 million tpa of natural soda ash. GCSAP has mining and manufacturing facilities located at Green River Basin in Wyoming, USA, which provides it access to the world's largest and most economically recoverable trona ore deposits that is then converted into soda ash.

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Question 137

Which of the following is not part of the Central Police Forces under the Union Government of India?

A Sashashatra Seema Ball

B Assam Rifles

C National Security Guard

D Anti-Naxalite Force

Answer: D

Question 138

In descending order, which of the following group of countries is correct about the length of India's land borders with its neighbors?

A Bangladesh, Pakistan, China, Myanmar, Nepal

B China, Pakistan, Bangladesh, Myanmar, Nepal

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C China, Bangladesh, Pakistan, Nepal, Myanmar

D Bangladesh, China, Pakistan, Nepal, Myanmar

Answer: D

Explanation:
Bangladesh border : 4096 km

China border : 4057 km

Pakistan border : 3323 km

Nepal border : 1751 km

Myanmar border : 1643 km

Hence, option D is the correct answer.

Question 139

Chronologically which one of the following is correct?

A (I) India's first nuclear test, (2) Comprehensive Test Ban Treaty comes to force, (3) France and China sign Non Proliferation Treaty

B (I) India conducts its second nuclear test - 1998, (2) N. Korea conducts test of nuclear weapon, (3) Chernobyl nuclear power station accident in Ukraine

C (I) International Atomic Energy Agency set up, (2) France conducts first nuclear test, (3) China conducts its first nuclear test

D (I) France and China sign Non Proliferation Treaty, (2) India conducts its second nuclear test, (3) France conducts first nuclear test

Answer: C

Explanation:
(I) International Atomic Energy Agency set up = 29 July 1957

(2) France conducts first nuclear test = 13 February 1960

(3) China conducts its first nuclear test = 16 October 1964

Hence, option C is the correct answer.

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Question 140

Which of the following mountain peak is not located in India?

A Daulagiri

B Mt. Kamet

C altoro Kangri

D Nanga Parbat (Diamir)

Answer: A

Explanation:
The Dhaulagiri massif in Nepal extends 120 km (70 mi) from the Kaligandaki River west to the Bheri. This massif is bounded on the north and southwest by tributaries of the Bheri River and on the southeast by Myagdi Khola. Dhaulagiri I is the seventh highest mountain in the world at 8,167 metres (26,795 ft) above sea level, and the highest mountain within the borders of a single country (Nepal). It was first climbed on May 13, 1960 by a Swiss/Austrian/Nepali expedition.

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Question 141

Select the correct Organization – Purpose match:

	Organization		Purpose
1	NABARD	i	Financial assistance for warehousing
2	NCDC	ii	Refinancing agricultural credit
3	SCARDB	iii	Inter-state sale of agricultural products
4	NAFED	iv	Land development

A 1-ii, 2-i, 3-iv, 4-iii

B 1-iii, 2-i, 3-iv, 4-ii

C 1-ii, 2-iii, 3-iv, 4-i

D 1-iii, 2-iv, 3-ii, 4-i

Answer: A

Explanation:
NABARD - NABARD role in rural development in India is phenomenal. National Bank For Agriculture & Rural Development (NABARD) is set up as an apex Development Bank by the Government of India with a mandate for facilitating credit flow for promotion and development of agriculture, cottage and village industries.

NCDC - Planning, promoting and financing programmes for production, processing, marketing, storage, export and import of agricultural produce, food stuffs, certain other notified commodities e.g. fertilisers, insecticides, agricultural machinery, lac, soap, kerosene oil, textile, rubber etc., supply of consumer goods and collection, processing, marketing, storage and export of minor forest produce through cooperatives, besides income generating stream of activities such as poultry, dairy, fishery, sericulture, handloom etc.

Loans and grants are advanced to State Governments for financing primary and secondary level cooperative societies and direct to the national level and other societies having objects extending beyond one State. Now, the Corporation can also go in for direct funding of projects under its various schemes of assistance on fulfillment of stipulated conditions.

SCARDB - State Cooperative Agriculture and Rural Development Banks (SCARDB) is a Central Sector Scheme of India which aims at raising resources of SLDBs(State Land Development Banks) for long term lending to cultivators by way of floatation of debentures in vital areas such as Minor Irrigation, Farm Mechanization, Land Development, Horticulture, Wasteland Development, Rural Housing, Rural Godowns, Non-Farm Sector and Animal Husbandry. Under this scheme the SLDBs/SCARDBs raise resources for long term lending to cultivators by floatation of debentures in vital areas like Farm Mechanisation, Land Development etc. The debentures floated by the Banks are subscribed by NABARD, the concerned State Governments, Government of India and other financial institutions.

NAFED : The objective of NAFED is to organize, promote and develop marketing, processing, storage of agricultural, horticultural and forest produce, import and export of agricultural commodities to augment the supplies in domestic market.

Therefore, option A is the correct answer.

Question 142

In descending order, which one of the following is the correct sex ratio of states in India?

A Kerala Tamil Nadu, Andhra Pradesh, Chhattisgarh, Orissa

B Kerala, Chhattisgarh, Orissa, Tamil Nadu, Andhra Pradesh

C Kerala, Tamil Nadu, Orissa, Andhra Pradesh, Tamil Nadu

D Kerala, Tamil Nadu, Chhattisgarh, Orissa, Andhra Pradesh

Answer: A

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Explanation:
Kerala - 1084

Chhattisgarh - 991

Andhra Pradesh - 993

Orissa - 979

Tamil Nadu - 996

Therefore, option A is the correct answer.

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Question 143

Select the correct Artists — Instruments match:

Artists	Instruments
i. N. Rajam	a. Santoor
ii. Satish Vyas	b. Violin
iii. Vilayat Khan	c. Rudra Vina
iv. Asad Ali Khan	d. Sitar

A i-c, ii-b, iii-d, iv-a

B i-b, ii-a, iii-d, iv-c

C i-d, ii-a, iii-b, iv-c

D i-c, ii-d, iii-b, iv-a

Answer: B

Explanation:
N. Rajam (born 1938) is an Indian violinist who performs Hindustani classical music.

Satish Vyas is an Indian santoor player. He is the son of the Indian classical singer C. R. Vyas. From 1978 he studied santoor with Shivkumar Sharma.

Ustad Vilayat Khan was an Indian classical sitar player. Along with Imdad Khan, Enayat Khan, and Imrat Khan, he is credited with the creation and development of gayaki ang on the sitar.

Asad Ali Khan was an Indian musician who played the plucked string instrument rudra veena. Khan performed in the style dhrupad and was described as the best living rudra veena player in India by The Hindu.

Hence, option B is the correct answer.

Question 144

Select the correct Sobriquets — Primary Names match:

Sobriquets	Primary Names
i. Emerald Island	a. Bahrain
ii. Island of pearls	b. Ireland
iii. Holy land	c. Bhutan
iv. Land of thunderbolt	d. Palestine

A i-b, ii-d, iii-c, iv-a

B i-c, ii-d, iii-a, iv-b

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C i-b, ii-a, iii-d, iv-c

D i-c, ii-a, iii-d, iv-b

Answer: C

Explanation:
It is easy to see from this true-color image why Ireland is called the 'Emerald Island'. Intense green vegetation, primarily grassland, covers most of the country except for the exposed rock on mountaintops. Ireland owes its greenness to moderate temperatures and moist air.

Bhutan is called Druk Yul - Land of Thunderbolt. Because of the violent and large thunderstorms that whip down through the valleys from the Himalayas, Bhutan is known as the Land of Thunderbolt. T

Bahrain is also known as the "Island of pearls".

Hold land is associated with Palestine. Hence, option C is the correct answer.

Question 145

Which of the following is an incorrect Award - Person match?

A Indra Nooyi - Padma Shri

B M Sukumaran - Sahitya Academy Award

C Dr. Jagannath Prasad Das - Saraswati Samman

D Rahman Rahi - Jnanpith Award

Answer: A

Explanation:
Indra Nooyi received Padma Bhusan. She didn't receive Padma Shri.

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Question 146

The antibiotic penicillin is obtained from:

A a bacterium

B fungus

C synthetic means

D virus-infected cells

Answer: B

Question 147

Select the correct Railway Zone — Head Quarter match: Table

Railway Zone	Head Quarter
i. South-East Central	a. Jabalpur
ii. North-East Frontier	b. Maligaon
iii. North Eastern	c. Bilaspur
iv. West Central	d. Gorakhpur

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A i-c, ii-b, iii-d, iv-a

B i-a, ii-d., iii-b, iv-c

C i-b, ii-b, iii-c, iv-d

D i-c, ii-a, iii-d, iv-d

Answer: A

Explanation:
South East Central Railway zone. The South East Central Railway (abbreviated SECR and दपूमरे) is one of the seventeen railway zones in India. It is headquartered at Bilaspur and comprises the Bilaspur and Nagpur divisions (formerly part of the South Eastern Railway) and the new Raipur division.

The Northeast Frontier Railway (abbreviated NFR and पूसीरे), is one of the 17 railway zones in India. Headquartered in Maligaon, Guwahati in the state of Assam, it is responsible for rail operations in the entire Northeast and parts of West Bengal and Bihar.

The North Eastern Railway (abbreviated NER and पूर्वोत्तर रेलवे) is one of the 16 railway zones in India. It is headquartered at Gorakhpur and comprises Lucknow, Varanasi and Izzatnagar or Bareilly division.

The West Central Railway (abbreviated WCR and पमरे), one of the 16 zones of the Indian Railways, came into existence on 1 April 2003. It is headquartered at Jabalpur.

Question 148

Select the correct Inventions/Discoveries – Inventors/ Discoverers match:

Inventions/ Discoveries	Inventors/ Discoverers
i. Cassette (Audio)	a. Philips Co.
ii. Super Computer	b. J. H. Van Tassel
iii. Cloning (Mammal)	c. Wilmut
iv. HIV	d. Mortagnier

A i-a, ii-b, iii-c, iv-d

B i-b, ii-a, iii-d, iv-c

C i-c, ii-a, iiii-b, iv-d

D i-a, ii-b, iii-d, iv-c

Answer: A

Explanation:
Sir Ian Wilmut, is an English embryologist and Chair of the Scottish Centre for Regenerative Medicine at the University of Edinburgh. He is best known as the leader of the research group that in 1996 first cloned a mammal from an adult somatic cell, a Finnish Dorset lamb named Dolly.

J.H. Van Tassel invented Super computer. Cassette (Audio) was invented by Phillips Co. HIV was discovered by Mortagnier. Hence, option A is the correct answer.

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Question 149

Select the correct Diseases – Plants affected match:

Diseases	Plants affected
i. Black Heart	a. Peas
ii. Red Rot	b. Wheat
iii. Karnal Bunt	c. Sugarcane
iv. Powdery Mildew	d. Potatoes

A i-a, ii-b, iii-d, iv-c

B i-d, ii-c, iii-b, iv-a

C i-b, ii-c, iii-a, iv-d

D i-a, ii-b, iii-c, iv-d

Answer: B

Explanation:
Black heart is a non-parasitic disease of the fruit of cultivated plants, such as potatoes, that causes them to rot from the inside. External signs of the disease may or may not be present. The internal blackening develops in plants exposed to environmental pathology such as drought conditions or poor soil.

Red rot is a very serious disease of sugarcane. It was first described by Went in 1893 (56). Since then it has been found to cause epiphytotics in different countries. The surest symptom of the disease is the reddening of the internal inter nodal tissues with crossbars of white patches in the reddened area. This red colour is caused by a dye which is secreted by the host and is antagonistic to the red rot fungus.

Karnal bunt (also known as partial bunt) is a fungal disease of wheat, durum wheat, and triticale. The smut fungus Tilletia indica, a basidiomycete, invades the kernels and obtains nutrients from the endosperm, leaving behind waste products with a disagreeable odor that makes bunted kernels too unpalatable for use in flour or pasta.

Powdery mildew can be a serious disease of field peas. It occurs sporadically when warm humid conditions favour its growth late in the season. Seed from infected pods can be discoloured and less palatable, which reduces its market value.

Hence, option B is the correct answer.

Question 150

In April 2008 ISRO launched the following satellite form Sriharikota:

A KITSAT-3

B CARTOSAT-2A

C HAMSAT

D INSAT-4CR

Answer: B

Explanation:
Kitsat-3 was a South Korean remote sensing minisatellite which carried MEIS and SENSE instruments to Low Earth orbit. Launched on 26 May 1999 by Indian space agency ISRO, on orbit the satellite was renamed to Uribyol 3.

Earth observation satellite CARTOSAT-2A was launched from the Satish Dhawan Space Centre (SDSC), Sriharikota (SHAR) in India on 28 April 2008.

HAMSAT was launched by PSLV-C6 on May 5, 2005. The main payload was an Indian Remote Sensing satellite, CARTOSAT-1 weighing 1,560 kilograms (3,440 lb). HAMSAT was placed into a polar sun synchronous orbit.

INSAT-4CR is a communications satellite operated by ISRO as part of the Indian National Satellite System

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2007, it replaced the INSAT-4C satellite which had been lost in a launch failure the previous year.

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