Telangana State Council Higher Education

Notations :

1.Options shown in green color and with ✔ icon are correct.

2.Options shown in red color and with ✖ icon are incorrect.

Question Paper Name :	TS ICET 2020 1st Oct 2020 Shift 1
Subject Name :	TS ICET 2020
Creation Date :	2020-10-01 17:14:17
Duration :	150
Number of Questions :	158
Total Marks :	200
Display Marks:	No
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required? :	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console? :	Yes

TS ICET 2020

Group Number :	1
Group Id :	39448419
Group Maximum Duration :	0
Group Minimum Duration :	150
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	200
Is this Group for Examiner? :	No

Analytical Ability

Section Id :	39448455
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

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Number of Questions :	45
Number of Questions to be attempted :	45
Section Marks :	75
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	394484379
Question Shuffling Allowed :	Yes

Question Id : 3944843745 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (1 to 20)

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Note: In questions numbered 1 to 20, a question is followed by data in the form of two statements labelled as I and II. You must decide whether the data given in the statements are sufficient to answer the questions. Using the data make an appropriate choice from (1) to (4) as per the following guidelines:

(a) Mark choice (1) if the statement I alone is sufficient to answer the question.
(b) Mark choice (2) if the statement II alone is sufficient to answer the question.
(c) Mark choice (3) if both the statements I and II are sufficient to answer the question but neither statement alone is sufficient.
(d) Mark choice (4) if both the statements I and II together are not sufficient to answer the question and additional data is required.

సూచన: 1 నుండి 20 వరకు ఇచ్చిన ప్రతి ప్రశ్నలోను ఒక ప్రశ్న, దాని క్రింద I, II అని గుర్తులు గల రెండు ప్రవచనాలు దత్తాంశంగా ఇవ్వబడ్డాయి. ఇచ్చిన దత్తాంశాన్ని ఉపయోగించి, ఇచ్చిన ప్రవచనాలు ప్రశ్నకు సమాధానాన్ని ఇచ్చేందుకు పర్యాప్తాలు అవుతాయా లేదా అని మీరు నిర్ధారించాలి. ఈ నిర్ధారణకు క్రింది మార్గదర్శక సూత్రాలు ఉపయోగించి (1) నుండి (4) వరకు సరి అయిన జవాబును ఎంపిక చేయండి.

(a) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం I మాత్రమే పర్యాప్తమయితే మీ జవాబు (1) గా గుర్తించండి.
(b) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనం II మాత్రమే పర్యాప్తమయితే మీ జవాబు (2) గా గుర్తించండి.
(c) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనాలు I, II కలసి పర్యాప్తమయి అందులో ఏ ఒక్కటి కూడా పర్యాప్తం కాకపోతే మీ జవాబు (3) గా గుర్తించండి.
(d) ప్రశ్నకు సమాధానం ఇచ్చేందుకు ప్రవచనాలు I, II కలసి కూడా పర్యాప్తం కాక అదనపు దత్తాంశం అవసరమయితే మీ జవాబు (4) గా గుర్తించండి.

Sub questions

Question Number : 1 Question Id : 3944843746 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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Find the values of x and y.

x, y విలువలు కనుక్కోండి.

(I) $2x = 3y$

(II) $4x^2 + 9y^2 = 12\,xy$

Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 2 Question Id : 3944843747 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Is the triangle ABC, an acute angled triangle?

త్రిభుజం ABC ఒక లఘు కోణ త్రిభుజమా?

(I) The sides of the triangle are in the ratio 4 : 5 : 7.
ఆ త్రిభుజం భుజాల నిష్పత్తి 4 : 5 : 7.

(II) The length of the longer side is 28 cm.
పెద్ద భుజం పొడవు 28 సెం. మీ.

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 3 Question Id : 3944843748 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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If a is an integer, $100 < a < 200$, then what is the value of a?

$100 < a < 200$ అయ్యేట్లున్న ఒక పూర్ణాంకం a అయితే, a విలువ ఎంత?

(I) a gives remainder 5 when divided by 10.
a ని 10 చే భాగిస్తే వచ్చే శేషం 5.

(II) a is divisible by 11.
11 చే a భాగింపబడును.

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 4 Question Id : 3944843749 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

How many books were sold this month in your shop?

మీ దుకాణంలో ఈ నెల ఎన్ని పుస్తకాలు అమ్ముడయినాయి?

(I) Last month 287 books were sold.
క్రిందటి నెల 287 పుస్తకాలు అమ్ముడయినాయి .

(II) The number of books sold this month was 2 times that of last month.
ఈ నెలలో అమ్ముడయిన పుస్తకాల సంఖ్య క్రిందటి నెల అమ్మకాలకు రెండు రెట్లు.

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 5 Question Id : 3944843750 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

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What is the height of the mountain?

పర్వతం ఎత్తు ఎంత?

(I) The angle of elevation of the top of the mountain is 60°.
ఆ పర్వత శిఖరపు ఊర్ధ్వకోణం 60° .

(II) The top of the mountain is seen from a point which is on horizontal line with the base.
పర్వత పాదం నుండి క్షితిజరేఖపైనున్న ఒక బిందువునుండి పర్వత శిఖరం ను చూసిరి.

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 6 Question Id : 3944843751 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If a,b,c are in geometric progression, then $a + b + c =$

a,b,c గుణశ్రేఢి లో ఉంటే, $a + b + c =$

(I) $a = 7$.

(II) The third term of the progression is twice the first term.
ఆ శ్రేఢి లోని మూడవ పదం, మొదటి పదం కు రెండు రెట్లు.

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 7 Question Id : 3944843752 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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What is the Mode of the frequency distribution?

పౌనపున్య విభాజనపు బాహుళకం ఎంత?

(I) The arithmetic mean is 58.
దాని అంకమధ్యము 58.

(II) The total frequency is 100.
మొత్తం పౌన: పున్యం 100.

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 8 Question Id : 3944843753 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the percentage increase in profit of the company *X* in the year 2016 with respect to that in 2014?

2014తో పోలిస్తే 2016 లో ఒక కంపెనీ X యొక్క లాభాల్లో పెరుగుదల శాతమెంత?

(I) The profit of the company in 2014 was Rs.1 lakh, which is 10% more than that in 2015.

2014 లో ఆ కంపెనీ లాభం రూ. 1 లక్ష కాగా అది 2015లో లాభం కన్నా 10% అధికం.

(II) Company's profit in 2016 was Rs.2 lakhs which was Rs.1 lakh more than tht in 2014.

2016లో కంపెనీ లాభం రూ. 2 లక్షలు కాగా, 2014లో వచ్చిన లాభం కన్నా రూ. 1 లక్ష అధికం.

Options :

1. ✖ 1
2. ✔ 2

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3. ✖ 3

4. ✖ 4

Question Number : 9 Question Id : 3944843754 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Let L be the set of straight lines in a plane. Is the relation S defined on L a reflexive relation?

ఒక తలం లోని సరళ రేఖల సమితిని L అనుకోండి. L పై నిర్వచింపబడిన సంబంధం S పరావర్తనం సంబంధమవుతుందా?

(I) $l_1, l_2 \in L$

(II) $(l_1, l_2) \in S \Leftrightarrow l_1 \perp l_2$

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 10 Question Id : 3944843755 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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How many students are there in the school?

పాఠశాలలో ఎంతమంది విద్యార్థులు ఉన్నారు?

(I) Out of the total number of girls in the school, 25% belong to age group below 10 years and these are 150 in number.

పాఠశాలలోని మొత్తం బాలికల్లో 25% మంది 10ఏళ్ళ కన్న తక్కువ వయస్సుకలవారు మరియు వీరి సంఖ్య 150.

(II) The ratio of girls to boys in the school is 5 : 7.

ఆ పాఠశాలలో బాలికలు, బాలుర సంఖ్యల నిష్పత్తి 5 : 7.

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Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 11 Question Id : 3944843756 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the average of x and y ?

x , y ల సరాసరి ఎంత?

(I) $x - y = 6$

(II) $x + y = 16$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

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Question Number : 12 Question Id : 3944843757 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Find the area of the rectangular field.

దీర్ఘ చతురస్రాకార క్షేత్రం వైశాల్యం కనుక్కోండి.

(I) The expenditure incurred in fencing along sides of the rectangle is Rs.30000.
భుజాల వెంబడి కంచె వేయుటకు ఐన ఖర్చు రూ. 30000.

(II) Cost of fencing per feet is Rs.500.
చదరపు అడుగు కంచె కయ్యే ఖర్చు రూ. 500.

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 13 Question Id : 3944843758 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Is the positive integer m divisible by 96?

ధన పూర్ణాంకం m , 96 చే భాగింపబడుతుందా ?

(I) m is divisible by 12.
12 చే m భాగింపబడును.

(II) m is divisible by 8.
8 చే m భాగింపబడును.

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3

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4. ✔ 4

Question Number : 14 Question Id : 3944843759 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The arithmetic mean of integers *r, s, t, u, v* is 100. Are exactly two of these integers greater than 100?

పూర్ణాంకాలు *r, s, t, u, v* ల అంకమధ్యమం 100. వాటిలో ఖచ్చితంగా రెండు పూర్ణాంకాలు 100 కన్న పెద్దగా ఉంటాయా?

(I) Three of the integers are less than 50.
వాటిలో మూడు పూర్ణాంకాలు 50 కన్నా తక్కువగా ఉన్నాయి.

(II) None of these integers is equal to 100.
వాటిలో ఏ సంఖ్య 100 కు సమానం కాదు.

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Options :
1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 15 Question Id : 3944843760 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

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If p, q are positive integers, is p a multiple of q ?

p, q లు ధనపూర్ణాంకాలయితే, q యొక్క గుణిజం p అవుతుందా ?

(I) Every distinct prime factor of q is also a distinct prime factor of p.
q యొక్క ప్రతీ విభిన్న ప్రధాన పూర్ణాంక భాజకం p కు కూడా విభిన్న ప్రధానాంక భాజకమే.

(II) Every factor of q is also a factor of p.
q యొక్క ప్రతీ కారణాంకం p కు కూడా కారణాంకమే.

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

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Question Number : 16 Question Id : 3944843761 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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Anil has 3 credits cards A,B and C. He owes balances on all the three cards. Does he owe the greatest balance on the card B?

అనిల్ వద్ద మూడు క్రెడిట్ కార్డులు A,B,C లు కలవు. అన్ని క్రెడిట్ కార్డుల వద్ద కొంత మిగులు (నిలువ) ఉన్నది. అతనికి కార్డు B పై అత్యంత ఎక్కువ మిగులు (నిలువ) ఉందా?

(I) The sum of the balances on card B and C is Rs.1350 which is 3 times the balance on card A.

B,C కార్డులపై మొత్తం నిలువ రూ.1350 అనేది కార్డు A పైగల నిలువకు 3 రెట్లు .

(II) The balance on card B is 4/3 of the balance on card A and 4/5 of the balance on his card C.

కార్డు B పై మిగులు అనేది కార్డు A పై మిగులుకు 4/3 వంతు. కార్డు C పై మిగులుకు 4/5 వంతు.

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 17 Question Id : 3944843762 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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Is the standard deviation of the ages of students in class A greater than standard deviation of the age of students in class B ?

తరగతి B లోని విద్యార్థుల వయస్సుల క్రమవిచలనం కన్న తరగతి A లోని విద్యార్థుల వయస్సుల క్రమవిచలనం పెద్దగా ఉంటుందా?

(I) The difference between the ages of any two students in class A is always more than one year.

తరగతి A లోని ఏ ఇద్దరు విద్యార్థుల వయస్సుల భేదం ఒక సంవత్సరం కన్న ఎక్కువ .

(II) No student in class B is more than 6 months older than any other student.

తరగతి Bలోని ఏ విద్యార్థి వయస్సు అయినా మరే ఇతర విద్యార్థి వయస్సుకన్న 6 నెలల కన్న ఎక్కువగా లేదు.

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Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 18 Question Id : 3944843763 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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Is n an even integer?

n ఒక సరిసంఖ్య అవుతుందా ?

(I) $6n$ is even.

$6n$ సరిసంఖ్య .

(II) $71n$ is odd.

$71n$ బేసి సంఖ్య.

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 19 Question Id : 3944843764 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If Z is an integer, what is the units digit of Z^3 ?

Z ఒక పూర్ణాంకమైతే , Z^3లోని ఒకట్ల స్థానంలో ని అంకె ఎంత?

(I) Z is a multiple of 5.

5 యొక్క ఒక గుణిజం Z.

(II) $\sqrt{Z}$ is an integer.

$\sqrt{Z}$ ఒక పూర్ణాంకం.

Options :

1. ✖ 1
2. ✖ 2

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3. ✖ 3

4. ✔ 4

Question Number : 20 Question Id : 3944843765 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the ratio of discounted price of an item to its marked price?

ఒక వస్తువు తగ్గింపు ధరకు దాని ప్రకటిత వెల కు గల నిష్పత్తి ఎంత?

(I) The discounted price is Rs.4 less than the marked price.
ప్రకటిత వెలకన్న దాని తగ్గింపు ధర రూ . 4 తక్కువ .

(II) Discouned price is 20% less than the marked price.
ప్రకటిత వెలకన్నా దాని తగ్గింపు ధర 20% తక్కువ.

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Sub-Section Number :	2
Sub-Section Id :	394484380
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 3944843766 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

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BACK : ____ :: FRONT : 0921181723

(1) 05040614

(2) 05040613

(3) 05040612

(4) 040030614

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 22 Question Id : 3944843767 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

SUWY : LPTX :: PRTV : ____

(1) INRU

(2) INQU

(3) IMRU

(4) IMQU

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Question Number : 23 Question Id : 3944843768 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

1,14,39,____,155

(1) 82

(2) 83

(3) 84

(4) 85

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Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 24 Question Id : 3944843769 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

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A, D, J, P, ____

(1) W

(2) X

(3) Z

(4) Y

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 25 Question Id : 3944843770 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

(MR, 31) : (KM, 24) :: (IJ, 19) : (PR, ___)

(1) 34

(2) 35

(3) 36

(4) 37

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

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Question Number : 26 Question Id : 3944843771 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

Reading : Knowledge :: _____ : _____

చదువుట : పరిజ్ఞానం :: _____ : _____

(1) Running : Speed
పరుగెత్తటం : వేగం

(2) Working : Experience
పనిచేయటం : అనుభవం

(3) Travelling : Pleasure
ప్రయాణించటం : ఆనందం

(4) Swimming : Water
ఈత కొట్టటం : నీళ్లు

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 27 Question Id : 3944843772 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

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Square : Cube :: Circle : _____

చతురస్రం : ఘనం :: వృత్తం : ____

(1) Tangent
స్పర్శరేఖ

(2) Chord
జ్యా

(3) Center
కేంద్రం

(4) Sphere
గోళం

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 28 Question Id : 3944843773 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

MAN : LNZBMO :: SUN : ____

(1) RTTVMO

(2) RUTVLM

(3) PQTUOP

(4) TUVWOP

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Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 29 Question Id : 3944843774 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

MOUSE : KPSTC :: LIGHT : _____

(1) MGHFU

(2) MJHIU

(3) JGEFR

(4) JJEIR

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Options :

1. ✖ 1

2. ✖ 2

3. ✖ 3

4. ✔ 4

Question Number : 30 Question Id : 3944843775 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Problem Solving
సమస్యా సాధన

Sequence and Series
అనుక్రమాలు, శ్రేణులు

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BAND : CUPF :: CARE : ____

(1) DUSB

(2) DUSI

(3) DUSA

(4) DUSC

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Sub-Section Number : 3
Sub-Section Id : 394484381
Question Shuffling Allowed : Yes

Question Number : 31 Question Id : 3944843776 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

(1) $x^2 - 3x + 2$

(2) $x^2 - 6x + 6$

(3) $x^2 - 7x + 4$

(4) $x^2 - 8x + 16$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 32 Question Id : 3944843777 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

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Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

(1) Kanchenjunga
కాంచనజంగ

(2) Appalachians
అప్పలాచియన్లు

(3) Satpura
సాత్పుర

(4) Vindhya
వింధ్య

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 33 Question Id : 3944843778 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

(1) DG2

(2) EK5

(3) JR6

(4) RV3

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

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Question Number : 34 Question Id : 3944843779 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

(1) Gandhinagar
గాంధీనగర్

(2) Pune
పూణే

(3) Itanagar
ఇటానగర్

(4) Dispur
దిస్పూర్

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

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Question Number : 35 Question Id : 3944843780 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : In questions numbered 31 to 35 pick the odd thing out.

గమనిక : 31 నుండి 35 వరకు గల ప్రశ్నలలో సరిపోలనిది గుర్తించుము.

(1) Bus depot
బస్ డిపో

(2) Cinema hall
సినిమా హాలు

(3) Railway station
రైల్వే స్టేషను

(4) Airport
విమానాశ్రయం

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Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Sub-Section Number : 4

Sub-Section Id : 394484382

Question Shuffling Allowed : Yes

Question Number : 36 Question Id : 3944843781 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

0.5, 0.66, 0.75, 0.80, ____

(1) 0.83

(2) 0.86

(3) 0.90

(4) 1.20

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Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 37 Question Id : 3944843782 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

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$2 + \sqrt{5}$; $9 + 4\sqrt{5}$; $38 + 17\sqrt{5}$; ____

(1) $48 + 24\sqrt{5}$

(2) $68 + 32\sqrt{5}$

(3) $121 + 48\sqrt{5}$

(4) $161 + 72\sqrt{5}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 38 Question Id : 3944843783 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

D32, W34, ____, L33, H30, E32

(1) P33

(2) Q31

(3) R32

(4) O31

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 39 Question Id : 3944843784 Question Type : MCQ Option Shuffling : No Display Question

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Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

−1, 0, 1, 8, 27, ___

(1) 24

(2) 49

(3) 60

(4) 64

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Question Number : 40 Question Id : 3944843785 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

8, 4, 4, 8, 32, _____

(1) 62

(2) 36

(3) 242

(4) 256

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Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 41 Question Id : 3944843786 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

165, 195, 255, 285, 345, ____

(1) 435

(2) 375

(3) 420

(4) 390

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Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 42 Question Id : 3944843787 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

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WSQ, SQM, QMK, MKG, _____

(1) KGE

(2) KGC

(3) KGB

(4) KGD

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 43 Question Id : 3944843788 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

BC, EG, KM, _____

(1) QS

(2) SQ

(3) SW

(4) WS

Options :

1. ✔ 1
2. ✖ 2

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3. ✖ 3

4. ✖ 4

Question Number : 44 Question Id : 3944843789 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

359, _____, 535, 623, _____

(1) 446, 710

(2) 447, 711

(3) 450, 710

(4) 445, 711

Options :

1. ✖ 1

2. ✔ 2

3. ✖ 3

4. ✖ 4

Question Number : 45 Question Id : 3944843790 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Note : Each of the questions from 36 to 45 follows a definite pattern, observe the same and fill in the blanks with suitable ones.

గమనిక :36 నుండి 45 వరకు గల ప్రశ్నలు ఒక ఖచ్చితమైన నియమాన్ని పాటిస్తున్నాయి. ఆ నియమాన్ని గమనించి సరియగు సమాధానాలతో ఖాళీలను పూరించండి.

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100, 1001, 11001, 110001, ____

(1) 1100001

(2) 1110001

(3) 1111001

(4) 1111101

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Sub-Section Number : 5

Sub-Section Id : 394484383

Question Shuffling Allowed : Yes

Question Id : 3944843791 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (46 to 48)

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The following table gives the classification of 100 students based on the marks obtained by them in Mathematics and Physics in an examination. Based on this information, answer the questions from 46 to 48.

ఒక పరీక్షలో గణితం మరియు భౌతిక శాస్త్రాలలో 100 మంది విద్యార్థులు సాధించిన మార్కుల విభజనను క్రింది పట్టిక చూపుతుంది. ఈ సమాచారం ఆధారంగా 46 నుండి 48 వరకు గల ప్రశ్నలకు సమాధానాలిమ్ము.

Subject విషయము	Max. Marks 50 గరిష్ట మార్కులు 50				
	40 and above 40 లేదా అంతకన్న ఎక్కువ	30 and above 30 లేదా అంతకన్న ఎక్కువ	20 and above 20 లేదా అంతకన్న ఎక్కువ	10 and above 10 లేదా అంతకన్న ఎక్కువ	0 and above 0 లేదా అంతకన్న ఎక్కువ
Mathematics గణితం	9	33	80	92	100
Physics భౌతిక శాస్త్రం	5	21	66	82	100
Average సగటు	7	27	73	87	100

Sub questions

Question Number : 46 Question Id : 3944843792 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The number of students scoring less than 40% marks in aggregate is

మొత్తం మీద 40% కన్న తక్కువ మార్కులు సాధించిన విద్యార్థుల సంఖ్య

(1) 27

(2) 20

(3) 19

(4) 13

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Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 47 Question Id : 3944843793 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The number of students scoring less than 60% marks in aggregate is

మొత్తం మీద 60% కన్న తక్కువ మార్కులు సాధించిన విద్యార్థులు సంఖ్య

(1) 71

(2) 72

(3) 73

(4) 74

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 48 Question Id : 3944843794 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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The number of students scoring less than 80% marks, but more than 60% marks in aggregate is

మొత్తం మీద 80% కన్న తక్కువ, 60%కన్న ఎక్కువ మార్కులు మొత్తం విద్యార్థుల సంఖ్య

(1) 24

(2) 20

(3) 16

(4) 14

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Sub-Section Number : 6

Sub-Section Id : 394484384

Question Shuffling Allowed : Yes

Question Id : 3944843795 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (49 to 53)

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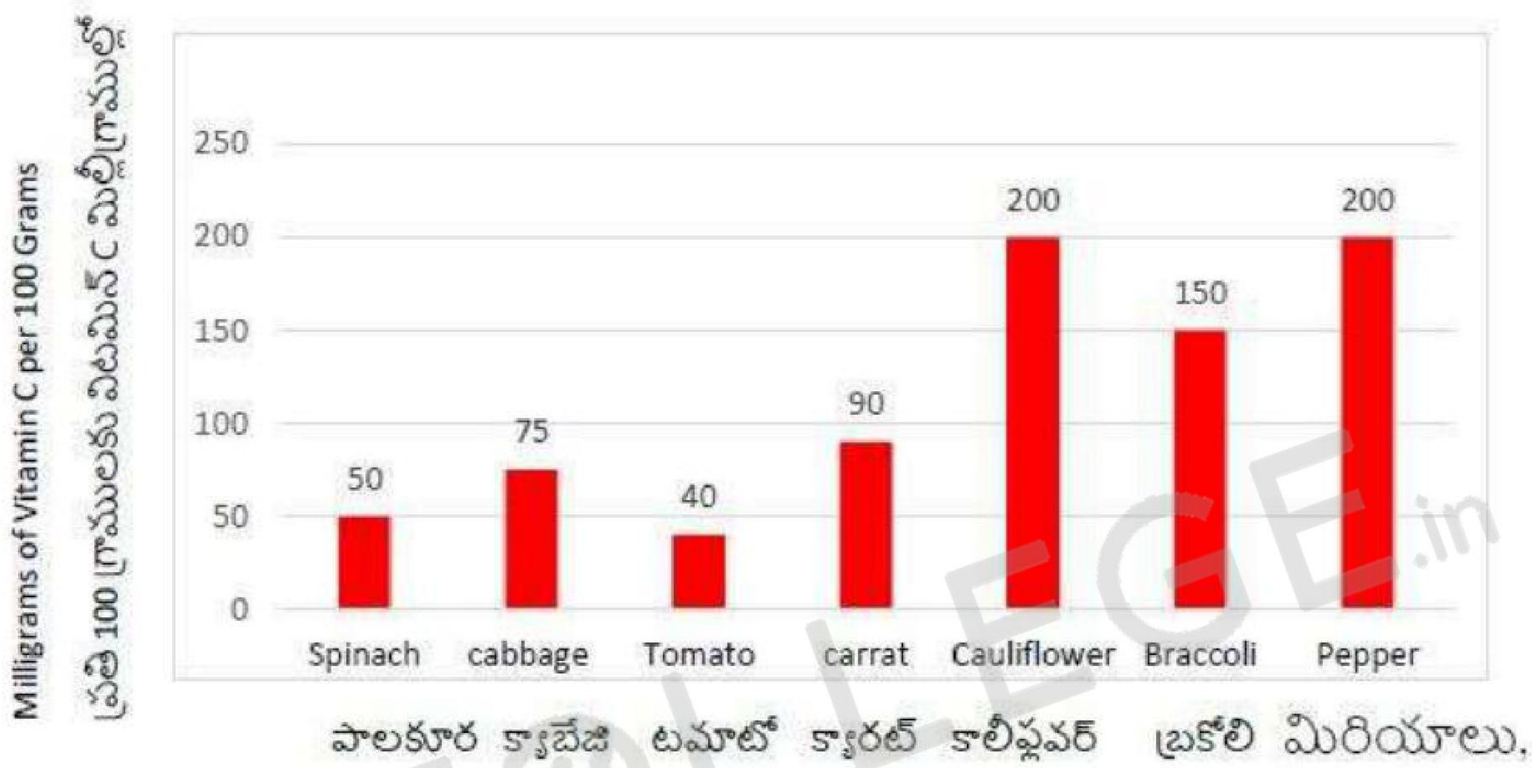
Based on the following bar diagram, answer the questions from 49-53.

క్రింద ఇవ్వబడిన బార్ పటం ఆధారంగా 49 నుండి 53 వరకు సమాధానాలు ఇవ్వండి.



Sub questions

Question Number : 49 Question Id : 3944843796 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The ratio of amount of Vitamin C in 500 grams of Cabbage to 500 grams of Cauliflower is

500 గ్రాముల క్యాబేజి లోని విటమిన్ C కి, 500 గ్రాముల కాలిఫ్లవర్ లో విటమిన్ C కి గల నిష్పత్తి

(1) 7 : 20

(2) 8 : 21

(3) 6 : 19

(4) 6 : 17

Options :

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1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 50 Question Id : 3944843797 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many grams of Carrots you require to get 900 mgs of Vitamin C ?

900 మి. గ్రాముల విటమిన్ C పొందటానికి ఎన్ని గ్రాముల క్యారట్ అవసరం?

(1) 950

(2) 900

(3) 1000

(4) 800

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 51 Question Id : 3944843798 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following vegetables gives maximum vitamin C ?

క్రింది కూరగాయలలో ఏది గరిష్ఠ సి విటమిన్ ను కల్గి ఉంటుంది?

(1) 250 gms of Spinach — 250 గ్రాముల పాలకూర

(2) 150 gms of Cauliflower — 150 గ్రాముల కాలిఫ్లవర్

(3) 250 gms of Carrot — 250 గ్రాముల క్యారట్

(4) 300 gms of Cabbage — 300 గ్రాముల క్యాబేజి

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Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 52 Question Id : 3944843799 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A person consumed 150 gms of Spinach and 150 gms of Tomato on same day. The amount of vitamin C (in m.gms) he consumed on that day is

ఒకే రోజు ఒక వ్యక్తి 150 గ్రాముల పాలకూర, 150 గ్రాముల టమాట ను తీసుకొనెను. ఆ రోజు ఆతను తీసుకున్న విటమిన్ C మొత్తం (మి .గ్రా లలో)

(1) 135

(2) 130

(3) 125

(4) 120

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Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 53 Question Id : 3944843800 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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The total amount (in m.gms) of vitamin C available in 500 gms of Pepper and 300 gms of Broccoli is

500 గ్రాముల మిరియాలు, 300 గ్రాముల బ్రకోలి లోని మొత్తం విటమిన్ C (మి.గ్రా.)

(1) 1350

(2) 1400

(3) 1450

(4) 1500

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Sub-Section Number : 7
Sub-Section Id : 394484385
Question Shuffling Allowed : Yes

Question Id : 3944843801 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (54 to 55)

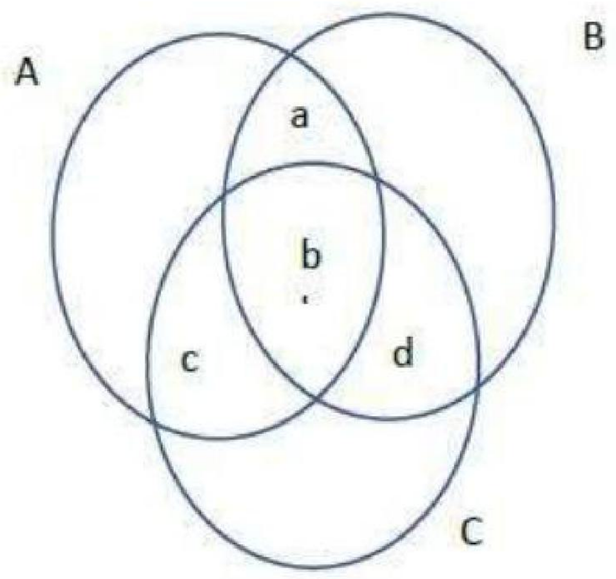
Using the following Venn diagram, answer the questions 54 and 55.

వెన్ చిత్రం ఆధారంగా 54, 55 ప్రశ్నలకు సమాధానాలనిమ్ము.

A : Post graduates
స్నాతకోత్తర పట్టభద్రులు

B: Govt sector employees
ప్రభుత్వ రంగంలోని ఉద్యోగులు

C: Contract employees
ఒప్పంద ఉద్యోగులు



Sub questions

Question Number : 54 Question Id : 3944843802 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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The area that represents contract employees who work in government sector but not post graduates is

ప్రభుత్వ రంగంలోని ఒప్పంద ఉద్యోగులై ఉండి, స్నాతకోత్తర పట్టభద్రులు కాని వారిని చూపే ప్రదేశం

(1) a

(2) b

(3) c

(4) d

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Question Number : 55 Question Id : 3944843803 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The region that represents employees in the government sector who are also post graduates is

స్నాతకోత్తర పట్టభద్రులైన ప్రభుత్వరంగంలో ఉద్యోగులను చూపే ప్రదేశం

(1) a ∪ b

(2) b ∪ c

(3) a ∪ b ∪ c

(4) c ∪ b ∪ d

Options :

1. ✖ 1
2. ✖ 2

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3. ✔ 3

4. ✖ 4

Sub-Section Number : 8

Sub-Section Id : 394484386

Question Shuffling Allowed : Yes

Question Id : 3944843804 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (56 to 60)

Read the following questions and answer the following

Sub questions

Question Number : 56 Question Id : 3944843805 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In a code language, DISTANCE is written as IDTUBECN and DOCUMENT is written as ODDVNTNE. How is THURSDAY written in that language?

కోడ్ భాషలో, DISTANCE ను IDTUBECN గా మరియు DOCUMENT ను ODDVNTNE గా ను కోడ్ చేసిరి. THURSDAY ను ఏవిధంగా కోడ్ చేసిరి ?

(1) DTVSTEYA

(2) HTTQRYAD

(3) HTVSTYAD

(4) HTVQTYAD

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 57 Question Id : 3944843806 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code?

కోడ్ భాషలో, MONKEY ను XDJMNL గా కోడ్ చేసిరి. TIGER కోడ్ పదం ఏది?

(1) QDFHS

(2) SDFHS

(3) SHFDQ

(4) UJHFS

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 58 Question Id : 3944843807 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If GOLD is coded as HOME, COME is coded as DONE, how would you code

SONS?

GOLD ను HOME గా, COME ను DONE గా కోడ్ చేయబడితే, SONS కోడ్ పదం ఏది ?

(1) TPOT

(2) TOOT

(3) TOOS

(4) TONT

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Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 59 Question Id : 3944843808 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If CENTURY is coded as AGLVSTW, then the code for SACHIN is

CENTURY కు కోడ్ పదం AGLVSTW అయితే SACHIN కు కోడ్ పదం ఏది ?

(1) UCAJGP

(2) UCEFGL

(3) QCAJGP

(4) QCAFKL

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Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 60 Question Id : 3944843809 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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If DIAMOND is coded as VQYMKLV, how is FEMALE coded?

DIAMOND ను VQYMKLV గా కోడ్ చేస్తే, FEMALE ఏవిధంగా కోడ్ చేయబడినది?

(1) TUMYNU

(2) UVNZOV

(3) UVNYNV

(4) TUMZOU

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Sub-Section Number : 9

Sub-Section Id : 394484387

Question Shuffling Allowed : Yes

Question Number : 61 Question Id : 3944843810 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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In a certain code the word PHONE is coded as DMNGO, then BUILT is coded as

పదం PHONE ను DMNGO గా కోడ్ చేస్తే , BUILT కు కోడ్ పదం

(1) UMJVC

(2) SKHTA

(3) UKHTC

(4) SMJVA

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 62 Question Id : 3944843811 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In a certain code MASTER is coded as QISREL, then STUDENT is coded as

పదం MASTER ను QISREL గా కోడ్ చేస్తే , STUDENT కు కోడ్ పదం

(1) SLHBASR

(2) SNJDASR

(3) SMICASR

(4) SMJDBSR

Options :

1. ✖ 1
2. ✖ 2

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3. ✔ 3
4. ✖ 4

Question Number : 63 Question Id : 3944843812 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

In a certain code language the word PRINCE is coded as 144 and the word KING is coded as 91, then in the same language MINISTER is coded as

పదం PRINCE ను 144 గాను పదం KING ను 91 గాను కోడ్ చేస్తే, MINISTER కు కోడ్ పదం

(1) 107

(2) 237

(3) 214

(4) 298

Options :
1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

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Question Number : 64 Question Id : 3944843813 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

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In a certain code language, the words ENGINEER and DOCTOR are coded respectively as 29 and 15 then in the same language TEACHER is coded as

ఒక కోడ్ పరిభాషలో పదాలు ENGINEER, DOCTOR లు వరుసగా, 29,15 లుగా కోడ్ చేస్తే, TEACHER కు కోడ్ పదం

(1) 38

(2) 39

(3) 40

(4) 41

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

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Question Number : 65 Question Id : 3944843814 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

If the word BANKER is coded as LISCEP, then in PENCIL is coded as

పదం BANKER ను LISCEP గా కోడ్ చేస్తే, PENCIL కు కోడ్ పదం

(1) GIPDOM

(2) DONRIP

(3) DOMQIP

(4) RIPOND

Options :

1. ✖ 1
2. ✖ 2

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3. ✔ 3

4. ✖ 4

Sub-Section Number : 10

Sub-Section Id : 394484388

Question Shuffling Allowed : Yes

Question Number : 66 Question Id : 3944843815 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

If a person takes birth on 14th April, 1992, which was a Sunday, then on which day of the week does his birthday fall in 1993?

ఏప్రిల్, 14, 1992 ఆదివారం రోజున ఒక వ్యక్తి జన్మిస్తే, 1993లో వారంలో ఏ రోజున ఆ వ్యక్తి జన్మదినం అవుతుంది?

(1) Monday

(2) Tuesday

(3) Wednesday

(4) Friday

(1) సోమవారం

(2) మంగళవారం

(3) బుధవారం

(4) శుక్రవారం

Options :

1. ✔ 1

2. ✖ 2

3. ✖ 3

4. ✖ 4

Question Number : 67 Question Id : 3944843816 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

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The angle between the minute hand and the hour hand of a clock at 3 hours 40 minutes is

గోడ గడియారంలో 3.40 సమయం చూపుతున్నప్పుడు గంటల, నిమిషాల ముల్లుల మధ్య కోణం

(1) 20^{o}

(2) 70^{o}

(3) 90^{o}

(4) 130^{o}

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Question Number : 68 Question Id : 3944843817 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

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The smaller angle between the two hands of a clock at 3.49 pm, in degrees is

మ 3.49 సమయాన గడియారంలో గంటల మరియు నిముషాల ముళ్ల మధ్య కనిష్ఠకోణం (డిగ్రీలలో)

(1) $165\frac{1}{2}$

(2) $169\frac{1}{2}$

(3) $175\frac{1}{2}$

(4) $179\frac{1}{2}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Question Number : 69 Question Id : 3944843818 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

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A woman pointing a man tells that his mother is the only daughter of my father. How is the man related to woman?

ఒక మహిళ ఒక పురుషుని వైపు వేలెత్తి చూపుతూ ఇలా అంటుంది. 'మీ అమ్మ మా నాన్న యొక్క ఏకైక కూతురు'. ఆ పురుషుడు ఆ మహిళ తో ఏ విధమైన రక్త సంబంధాన్ని కలిగి ఉన్నాడు.

(1) Uncle పినతండ్రి

(2) Grand son మనవడు

(3) Son కొడుకు

(4) Nephew మేనల్లుడు

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Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 70 Question Id : 3944843819 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

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A bus B_1 arrives at a station S, 50 minutes late, but it arrives 30 minutes before another bus B_2 which reaches the sation S 20 minutes early than its scheduled time 3.40 pm. Then the scheduled time of arrival of bus B_1 and station S is

ఒక బస్సు B_1 , స్టేషను S కు, నిర్ణీత సమయానికన్నా 50 నిముషాలు ఆలస్యంగా చేరుకున్నది. కాగా అది స్టేషను S కు నిర్ణీత సమయమైన మ. 3. 40 రావాల్సిన మరో బస్సు B_2 కన్నా 30 నిముషాలు ముందే రావటం జరిగింది. కానీ బస్సు B_2 స్టేషను S కి 20 నిముషాలు ముందే చేరుకున్నది. అప్పుడు స్టేషను S కు బస్సు B_1 రావాల్సిన నిర్ణీత సమయం

(1) మ.1.30 pm

(2) మ.2.00 pm

(3) మ.2.30 pm

(4) మ.3.00 pm

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Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 71 Question Id : 3944843820 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

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A person starts from his house and walks 80 meters towards West, then he walks 60 meters towards his left, then 80 meters towards West and then 40 meters towards South, finally, he turns right and walks 50 meters. What is the horizontal distance covered by him from his house? (in meters)

ఒక వ్యక్తి తన ఇంటినుండి బయలుదేరి పడమర వైపుగా 80 మీ. నడిచి, తరువాత 60మీ . ఎడమవైపుగా నడిచి ఆపై పడమర వైపు 80మీ. నడి చాక తదుపరి 40మీ. దక్షిణం వైపు నడిచెను. చివరగా కుడివైపు తిరిగి మరో 50మీ. నడిచాడు. అపుడు తన ఇంటినుండి ఆటను క్షితిజ సమాంతరంగా నడిచిన దూరం (మీ .) ఎంత ?

(1) 140

(2) 180

(3) 130

(4) 210

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Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 72 Question Id : 3944843821 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

ZOLLEGE.in

Four persons A, B, C and D live in different towns which are located as

నలుగురు వ్యక్తులు A, B, C, D లు నాలుగు విభిన్న పట్టణాలలో నివసిస్తున్నారు.

ఆ పట్టణాలు ప్రదేశాలు ఈ విధంగా ఉన్నాయి.

i) B is to the South West of A;
A కు నైరుతి వైపున B ఉన్నది.

ii) C is to the East of B and is also to the South East of A;
A కు ఆగ్నేయంగా, B కు తూర్పున C ఉంది.

iii) D is to the North of C in line with B and A;
C కు ఉత్తరాన ఉంటూ A,B లను కలిపే రేఖపై D ఉంది.

What is the direction of A relative to D?

D కు సాపేక్షంగా A ఏ దిశగా ఉంది?

(1) North
(1) ఉత్తర

(2) East
(2) తూర్పు

(3) South West
(3) నైరుతి

(4) North East
(4) ఈశాన్యం

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 73 Question Id : 3944843822 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

ZOLLEGE.in

If $a * b = ab + \frac{1}{ab} + a + \frac{1}{b}$ then (-1) * (2 * 1) =

$a * b = ab + \frac{1}{ab} + a + \frac{1}{b}$ అయితే (-1) * (2 * 1) =

(1) $-5\frac{1}{2}$

(2) -5

(3) -6

(4) $-6\frac{1}{2}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Question Number : 74 Question Id : 3944843823 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

ZOLLEGE.in

If $a\Delta b = \frac{a}{b} + \frac{b}{a}$ and $a * b = ab + \frac{1}{ab}$ then $(1\Delta 2) * 4 =$

$a\Delta b = \frac{a}{b} + \frac{b}{a}$ మరియు $a * b = ab + \frac{1}{ab}$ అయితే $(1\Delta 2) * 4 =$

(1) $10\frac{1}{5}$

(2) $9\frac{1}{9}$

(3) $10\frac{1}{10}$

(4) $10\frac{1}{2}$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

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Question Number : 75 Question Id : 3944843824 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Date, Time & Arrangement Problems

తేదీ, సమయం, అమరికల సమస్యలు

ZOLLEGE.in

If $a \oplus b = a^2 + b^2$, $a \ominus b = a^2 - b^2$ then $(2 \oplus 3) \ominus 13 =$

$a \oplus b = a^2 + b^2$, $a \ominus b = a^2 - b^2$ అయితే $(2 \oplus 3) \ominus 13 =$

(1) 1

(2) 2

(3) 3

(4) 0

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Mathematical Ability

Section Id :	39448456
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	75
Number of Questions to be attempted :	75
Section Marks :	75
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	394484389
Question Shuffling Allowed :	Yes

Question Number : 76 Question Id : 3944843825 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

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If $a(\sqrt[3]{x^2}) + a(\sqrt[3]{x}) + c = 0$, then $a^3x^2 + b^3x + c^3 =$

$a(\sqrt[3]{x^2}) + a(\sqrt[3]{x}) + c = 0$ అయితే, $a^3x^2 + b^3x + c^3 =$

(1) 3 abcx

(2) 3 abc

(3) a+b+c

(4) $3abcx^3$

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 77 Question Id : 3944843826 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If s, t are rational numbers such that $(3^{t-2})^5 \times (2^{s+3})^3 = 432$,

then $4t - 5s =$

$(3^{t-2})^5 \times (2^{s+3})^3 = 432$ అయ్యేటట్లు s, t అకరణీయ సంఖ్యలు

అయితే, $4t - 5s =$

(1) 153

(2) $\frac{281}{15}$

(3) $\frac{154}{15}$

(4) 280

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3

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4. ✖ 4

Question Number : 78 Question Id : 3944843827 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

A bag contains the coins of denomination of Rs.5, Rs.2, and Rs.1 in the ratio of 2 : 3 : 5 respectively. If total value of the money in the bag is Rs.2100, then how many Rs.5 coins are there in the bag?

ఒక సంచిలో వరుసగా 2 : 3 : 5 నిష్పత్తిలో రూ. 5, రూ. 2 మరియు రూ. 1 విలువ కలిగిన నాణేలు ఉన్నాయి. ఈ సంచిలో మొత్తం (డబ్బులు) విలువ రూ. 2100 అయితే, దానిలో ఎన్ని రూ. 5 నాణేలు ఉన్నాయి?

(1) 500

(2) 400

(3) 300

(4) 200

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 79 Question Id : 3944843828 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

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The shares of two persons P and Q in a company are in the ratio 3 : 7. The company gave each of them 20 additional shares, as a result of which, the ratio got altered to 1 : 2. How many shares of company does Q now hold?

ఒక కంపెనీలో ఇద్దరు వ్యక్తులు P,Q ల షేర్లు 3 : 7 నిష్పత్తిలో ఉన్నాయి. వారిద్దరికీ కంపెనీ అదనంగా చెరో 20 షేర్లు ఇచ్చింది. తత్ఫలితంగా ఆ నిష్పత్తి 1 : 2 గా మారింది. కంపెనీ యొక్క ఎన్ని షేర్లను Q కలిగి ఉన్నాడు?

(1) 140

(2) 160

(3) 200

(4) 180

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 80 Question Id : 3944843829 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

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If $x = \sqrt[3]{p+\sqrt{p^2+q^3}} + \sqrt[3]{p-\sqrt{p^2+q^3}}$, then $x^3 + 3qx - 2p$ =

$x = \sqrt[3]{p+\sqrt{p^2+q^3}} + \sqrt[3]{p-\sqrt{p^2+q^3}}$ అయితే, $x^3 + 3qx - 2p$ =

(1) 0

(2) 1

(3) 2

(4) 3

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

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Question Number : 81 Question Id : 3944843830 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If $x = \sqrt{3} + \sqrt{2}$, then $x^3 + \frac{1}{x^3}$ =

$x = \sqrt{3} + \sqrt{2}$ అయితే, $x^3 + \frac{1}{x^3}$ =

(1) $18\sqrt{3}$

(2) $15\sqrt{3}$

(3) $9\sqrt{3}$

(4) $8\sqrt{3}$

Options :

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1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 82 Question Id : 3944843831 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

The least values of x and y, respectively, so that $7x342y$ is divisible by 88 are

$7x342y$ అనే సంఖ్య 88 చే భాగించబడితే అప్పుడు x, y కనిష్ఠ విలువలు

వరుసగా

(1) 1, 4

(2) 2, 4

(3) 4, 4

(4) 5, 4

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 83 Question Id : 3944843832 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

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A natural number m is multiplied by 11 and then 22 is added to the product. The result is a multiple of 17. Then the smallest value of m is

ఒక సహజ సంఖ్య m ను 11 చే గుణించి 22 కలపగా వచ్చే సంఖ్య 17 యొక్క ఒక గుణిజము అయితే m యొక్క కనిష్ఠ విలువ

(1) 11

(2) 15

(3) 17

(4) 22

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

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Question Number : 84 Question Id : 3944843833 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

The smallest positive integer which is perfect square and is also divisible by 15, 18 and 25 is

15,18 మరియు 25 లచే భాగింపబడే కనిష్ఠ సంపూర్ణ వర్గ పూర్ణాంకం

(1) 450

(2) 600

(3) 900

(4) 625

Options :

1. ✖ 1
2. ✖ 2

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3. ✔ 3
4. ✖ 4

Question Number : 85 Question Id : 3944843834 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

The smallest positive integer which when subtracted from 3000 is divisible by

7, 11 and 13

3000 నుండి ఏ కనిష్ఠ ధన సంఖ్యను తీసివేయడం వల్ల వచ్చే సంఖ్య 7, 11, 13 లచే భాగింపబడునో అట్టి కనిష్ఠ సంఖ్య

(1) 1001

(2) 998

(3) 996

(4) 984

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 86 Question Id : 3944843835 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

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If $3.8\overline{12} = \frac{p}{q}$ where p, q are positive integers with no common factors, except 1,

then $2q + p =$

1 కాకుండా సామాన్య కారణాంకాలు లేని ధన పూర్ణ సంఖ్యలు p,q మరియు

$3.8\overline{12} = \frac{p}{q}$ అయితే, $2q+p =$

(1) 959

(2) 794

(3) 564

(4) 389

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 87 Question Id : 3944843836 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

If the reciprocal of the sum of the reciprocals of $\frac{3}{5}, \frac{5}{7}, \frac{4}{9}$ is $\frac{p}{q}$ when p, q are positive integers with GCD 1, then $3q - 5p =$

P,q లు ధన పూర్ణాంకాలు మరియు వాటి గ.సా.భా 1. $\frac{3}{5}, \frac{5}{7}, \frac{4}{9}$ ల విలోమముల మొత్తము యొక్క విలోమము $\frac{p}{q}$ అయితే, $3q - 5p =$

(1) 97

(2) -1415

(3) 657

(4) -1825

Options :

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1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 88 Question Id : 3944843837 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

The biggest number among the following is

(కింది వాటిలో అతి పెద్ద సంఖ్య

$\sqrt{10}-3,\ \sqrt{13}-2\sqrt{3},\ \sqrt{5}-2,\ 3-2\sqrt{2}$

(1) $\sqrt{5}-2$

(2) $\sqrt{13}-2\sqrt{3}$

(3) $\sqrt{5}-2$

(4) $3-2\sqrt{2}$

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 89 Question Id : 3944843838 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

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$$\frac{(1.73)^2-(1.73)(1.27)+(1.27)^2}{(1.73)^3+(1.27)^3} =$$

(1) $\frac{1}{3}$

(2) 3

(3) $\frac{1}{2}$

(4) 1

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 90 Question Id : 3944843839 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If p% of 96 is equal to q% of 21, then $\frac{1}{3p}$% of $5q$ is equal to

96 యొక్క p% అనేది 21 యొక్క q% కు సమానము అయితే 5q యొక్క $\frac{1}{3p}$%

(1) $\frac{4}{105}$

(2) $\frac{8}{105}$

(3) $\frac{16}{105}$

(4) $\frac{32}{105}$

Options :

1. ✖ 1
2. ✔ 2

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3. ✖ 3
4. ✖ 4

Question Number : 91 Question Id : 3944843840 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

When numerator of a fraction is increased by 15%, and denominator is decreased by 8%, the fraction becomes $\frac{15}{16}$. What is the original fraction?

ఒక భిన్నం లవములో 15% ఎక్కువ చేసి, హారం 8% తగ్గించడం వల్ల దాని విలువ $\frac{15}{16}$. అయ్యింది. మొదట ఉన్న ఆ భిన్నం ఏమిటి?

(1) $\frac{3}{4}$

(2) $\frac{4}{5}$

(3) $\frac{6}{7}$

(4) $\frac{7}{11}$

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 92 Question Id : 3944843841 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

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A merchant purchases 11 bags for Rs.900 and sells 9 for Rs.1100. Then profit percent he gets in this business is

ఒక వ్యాపారి 11 బస్తాలను రూ. 900 కొని, 9 బస్తాలను రూ. 1100 కు అమ్మాడు. అయితే ఈ వ్యాపారములో అతనికి వచ్చే లాభ శాతము?

(1) $\frac{4000}{81}$

(2) $\frac{4000}{91}$

(3) $\frac{4000}{71}$

(4) $\frac{4000}{51}$

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Z@LLEGE.in

Question Number : 93 Question Id : 3944843842 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

ZOLLEGE.in

A person buys an article for a discount of 10% on its marked price Rs.1200. If, in turn, he sells it for Rs.1200, then profit percent is

ఒక వ్యక్తి ఒకవస్తువును దాని ప్రకటితవెలపై రూ. 1200 లపై 10% తగ్గింపుతో కొనెను. ఆపై ఆ వస్తువును రూ. 1200 లకు అమ్మగా వచ్చు లాభశాతం?

(1) 11

(2) $11\frac{1}{9}$

(3) $10\frac{1}{9}$

(4) 10

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Z@LLEGE.in

Question Number : 94 Question Id : 3944843843 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

ZOLLEGE.in

A person started a business with Rs.15 lakhs. After 2 months, B joined A as a partner and after 4 more months C joined A and B as a partner. At the end of the year, they shared the profits in the ratio 9 : 8 : 5. Then the ratio of the capitals of B and C was

ఒక వ్యక్తి A , రూ .15 లక్షల పెట్టుబడితో వ్యాపారం ప్రారంభించాడు. 2 నెలల తరువాత, B ఒక భాగస్వామిగా A తో చేరాడు . మరియు మరో 4 నెలల తరువాత A,B , లతో C జతకలిసెను. సంవత్సరం చివరిలో వారు 9 : 8 : 5 నిష్పత్తిలో లాభాలను పంచుకున్నారు. అప్పుడు B మరియు C యొక్క పెట్టుబడుల నిష్పత్తి

(1) 17 : 13

(2) 21 : 23

(3) 24 : 25

(4) 27 : 24

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 95 Question Id : 3944843844 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

Z@LLEGE.in

The initial capitals of two persons A and B in a partnership business are Rs.40 lakhs and Rs.60 lakhs, respectively. After 4 months each of them invested Rs.10 lakhs. If the profit at the end of the year is Rs.13.6 lakhs, then the difference in their profits in lakhs of Rupees is

ఒక ఉమ్మడి వ్యాపారంలో ఇద్దరు వ్యక్తులు A, B లు వరుసగా రూ. 40, రూ 50 లక్షలను ప్రారంభ పెట్టుబడి గా పెట్టిరి. 4 నెలల తరువాత వారిలో ఒక్కొక్కరు రూ. 10 లక్షలను మదుపు చేసిరి. సంవత్సరాంత లాభం రూ. 13.6 లక్షలయితే, వారి లాభాలలో భేదం (లక్షల రూపాయిలలో)

(1) 3.2

(2) 3.0

(3) 2.8

(4) 2.4

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 96 Question Id : 3944843845 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

Z@LLEGE.in

Two pipes A and B can fill an empty cistern in 6 hours and 8 hours, respectively. After opening both the pipes simultaneously, pipe B is closed after X hours and A filled the rest of the tank in 4 hours. Then X =

ఒక ఖాళీ తొట్టెను రెండు గొట్టాలు A మరియు B లు వరుసగా 6 గంటలు మరియు 8 గంటలలో నింపగలవు. రెండు గొట్టాలు ఒకేసారి తెరిచిన X గంటల తర్వాత గొట్టము B మూయబడింది. మిగతా తొట్టెను A నాలుగు గంటలలో నింపితే, X =

(1) $\frac{8}{12}$

(2) $\frac{8}{7}$

(3) $\frac{8}{6}$

(4) $\frac{8}{3}$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 97 Question Id : 3944843846 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

Z@LLEGE.in

97 Two pipes P_1 and P_2 can fill a tank in 15 minutes and 20 minutes respectively. Both the pipes are opened simultaneously, but after 4 minutes, pipe P_1 is turned off. What is the total time required to fill the tank?

రెండు గొట్టాలు P_1 , P_2లు ఒక ట్యాంకును వరుసగా 15 నిమిషాలు మరియు 20 నిమిషాలలో నింపగలవు రెండు గొట్టాలు ఒకేసారి తెరిచిన 4 నిమిషాల తర్వాత గొట్టము P_1 మూసివేస్తే ట్యాంకు నిండటానికి ఎంత సమయము పడుతుంది?

(1) 10 minutes 20 seconds

(2) 11 minutes 45 seconds

(3) 12 minutes 30 seconds

(4) 14 minutes 40 seconds

(1) 10 నిమిషాలు 20 సెకన్లు

(2) 11 నిమిషాలు 45 సెకన్లు

(3) 12 నిమిషాలు 30 సెకన్లు

(4) 14 నిమిషాలు 40 సెకన్లు

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 98 Question Id : 3944843847 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

ZOLLEGE.in

Walking at $\frac{2}{3}rd$ of my normal speed, I am an hour late to office. Then the normal time I take in travelling to office is

సాధారణ వేగం కన్నా 2/3 వంతు వేగంతో వెళితే నేను కార్యాలయానికి 1 గంట ఆలస్యంగా చేరగలను. కార్యాలయానికి చేరుకోవడానికి సాధారణంగా నాకు పట్టే సమయం

(1) $1\frac{1}{2}$ hours $1\frac{1}{2}$ గంటలు

(2) 2 hours 2 గంటలు

(3) $1\frac{3}{4}$ hours $1\frac{3}{4}$ గంటలు

(4) Indeterminate నిర్ధారించలేము

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 99 Question Id : 3944843848 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

Z@LLEGE.in

The circumference of a cart wheel is $4\frac{2}{7}$ meters and it makes 7 revolutions in 4 seconds. Then the speed of the cart (in kmph) is

ఒక బండి చక్రం పరిధి $4\frac{2}{7}$ మీ. కాగా అది 4 సెకన్లలో 7 భ్రమణాలను చేస్తుంది. అప్పుడు ఆ బండి వేగం (గంటకు కి.మీ. లలో)

(1) 27

(2) 30

(3) 32

(4) 40

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 100 Question Id : 3944843849 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

ZOLLEGE.in

There are three workers Ram, Tom and Jill who take 3 hours, 2 hours and 4 hours respectively, for manufacturing a toy by themselves. How long would it take if all three workers worked together. (in hours)

ఒక బొమ్మను తయారు చేయడానికి ముగ్గురు కార్మికులు రామ్, టామ్ మరియు జిల్ లకు వరుసగా 3 గంటలు, 2 గంటలు మరియు 4 గంటల సమయము పడుతుంది. అయితే ఆ ముగ్గురు కార్మికులు కలిసి ఆ బొమ్మను తయారు చేయుటకు పట్టు సమయం ఎంత? (గంటలలో)

(1) $\frac{13}{12}$

(2) $\frac{12}{13}$

(3) $\frac{13}{11}$

(4) $\frac{4}{3}$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 101 Question Id : 3944843850 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

Z@LLEGE.in

Three persons A, B and C working alone, can complete a piece of work in 10, 15, and 40 days respectively. A and C started working together, after 5 days, C quits and is replaced by B. The number of days required to complete the work is

ముగ్గురు వ్యక్తులు A, B, C లు విడివిడిగా ఒక పనిని వరుసగా 10, 15, 40 రోజులలో పూర్తి చేయగలరు. A, C లు కలసి పనిని ప్రారంభించిన 5 రోజుల తరువాత C వదిలి వెళ్లగా ఆ స్థానాన్ని B తో పూర్తి చేయాల్సివచ్చింది. ఆ పనిని పూర్తి చేయుటకు పట్టు రోజులు

(1) $6\frac{1}{2}$

(2) $8\frac{2}{3}$

(3) 10

(4) $7\frac{1}{4}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 102 Question Id : 3944843851 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

Z@LLEGE.in

The smallest side of a right angled triangle is 7 cm less than the side of square of perimeter 52 cm. The second largest side of that triangle is equal to the length of the rectangle of area 72 sq cm., whose breadth is 8 cm. The length of the largest side of the right angled triangle is (in cms)

ఒక లంబకోణ త్రిభుజంలోని అత్యంత చిన్న భుజం అనేది 52 సెం. మీ. . పరిధి గల చతురస్రపు భుజంకన్నా 7 సేం. మీ. తక్కువగా ఉంది. ఆ త్రిభుజాలోని రెండో అతి పెద్ద భుజం అనేది 8 సెం. మీ. వెడల్పు వైశాల్యం 72 చ. సెం. మీ. కల్గిన దీర్ఘ చతుర స్ర పొడవుకు సమానం. ఆ త్రిభుజం యొక్క అత్యంత పెద్ద భుజం పొడవు (సెం. మీ. లలో)

(1) $\sqrt{105}$

(2) $\sqrt{110}$

(3) $\sqrt{117}$

(4) $\sqrt{124}$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 103 Question Id : 3944843852 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

Z@LLEGE.in

The area of the four walls of a room is 128 sq.m. If the length, the breadth are equal and the height of the wall is equal to 4 meters, the area of the floor of the room (in sq.m) is

ఒక గదిలోని నాలుగు గోడల వైశ్యాల్యం 128 చ.మీ గోడల పొడవు వెడల్పులు సమానము మరియు గోడ ఎత్తు 4 మీ. అయిన, నేల వైశాల్యం (చ.మీ. లలో)

(1) 64

(2) 72

(3) 81

(4) 100

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Z@LLEGE.in

Question Number : 104 Question Id : 3944843853 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

The diagonal of a cube is $6\sqrt{3}$ meters. Its volume is (in cubic meters)

ఒక సమఘనపు వికర్ణం $6\sqrt{3}$ మీ. దాని ఘనపరిమాణం (ఘనపు మీటర్లలో)

(1) 225

(2) 216

(3) 206

(4) 196

Options :

1. ✖ 1

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2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 105 Question Id : 3944843854 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

If curved surface area of the cylinder with 5 meters height is 220 sq.mts. Its volume

(in cu mts) is

5మీ. ఎత్తుగల ఒక స్తూపం వక్రతల వైశాల్యం 220 చ.మీ. అయితే, దాని ఘనపరిమాణం (ఘ.మీ. లలో)

(1) 770

(2) 760

(3) 740

(4) 780

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 106 Question Id : 3944843855 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

Z@LLEGE.in

The ratio of diameter to height of a right circular cylinder is 6 : 5. If the diameter gets reduced by 25%, then its total surface area is reduced by 338.25 sq.meters. Then the circumference of the base of original cylinder is

ఒక స్తూపం వ్యాసానికి, ఎత్తుకుగల నిష్పత్తి 6 : 5. దాని వ్యాసం 25% తగ్గిస్తే దాని సంపూర్ణతల వైశాల్యంలో 338.25 చ.మీ తగ్గుతుంది. అసలు స్తూపం భూపరిధి

(1) $8\sqrt{2}\,\pi$

(2) $6\sqrt{7}\,\pi$

(3) $4\sqrt{5}\,\pi$

(4) $7\sqrt{3}\,\pi$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

ZOLLEGE.in

Question Number : 107 Question Id : 3944843856 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

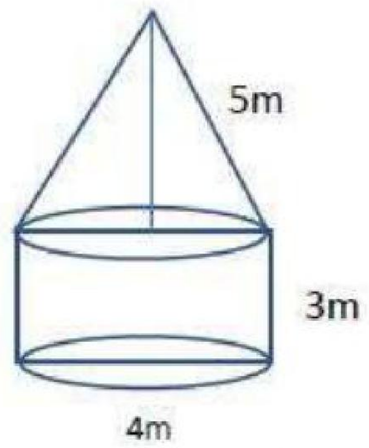
Arithmetical Ability
అంకగణిత సామర్థ్యత

ZOLLEGE.in

A circular tent with a cone on top is to be constructed as shown in the given diagram.

The canvas (in sq.m) required to erect the tent is

ఒక వృత్తాకారపు గుడారం, ఇవ్వబడిన పటంలో చూపినట్లు, స్తూపం పై ఒక శంకువునుంచినట్లున్నది. ఆ గుడారము నిర్మించుటకు అవసరమయ్యే గుడ్డ (చ.మీ)



(1) 44 π

(2) 48 π

(3) 40 π

(4) 52 π

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 108 Question Id : 3944843857 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

Z@LLEGE.in

$193m^3$ of water is poured in a tank having a square base. The water reaches a level that is three times the length of the base. Then area of the base is (in m^2)

చతురస్రాకారపు అడుగుభాగాన్ని కల్గిన ఒక తొట్టి లోకి 193మీ^{3} ల నీటిని పోసిరి. అందులోకి చేరిన నీటి మట్టం ఆ ట్యాంకు అడుగు భాగపు భుజం పొడవుకు 3 రెట్లు. అప్పుడు అడుగు భాగపు వైశాల్యం (మీ.^{2} లలో)

(1) 9

(2) 16

(3) 25

(4) 36

Note: For this question, discrepancy is found in question/answer. So,this question is ignored for all candidates.

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 109 Question Id : 3944843858 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability

అంకగణిత సామర్థ్యత

ZOLLEGE.in

Convert $(102)_7$ into decimal representation.

$(102)_7$ ను దశాంశమానము లోకి మార్చుము.

(1) 53

(2) 52

(3) 51

(4) 50

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 110 Question Id : 3944843859 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Arithmetical Ability
అంకగణిత సామర్థ్యత

If $|x| \leq 2$, which one of the following has the largest (greatest) possible absolute value?

ఈ క్రిందివాటిలో ఏది $|x| \leq 2$ లో గరిష్ఠ పరమ మూల్యము కల్గి ఉంటుంది?

(1) $3x - 1$

(2) $x^2 + 1$

(3) $3 - x$

(4) $x^2 - x$

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Sub-Section Number : 2
Sub-Section Id : 394484390
Question Shuffling Allowed : Yes

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Question Number : 111 Question Id : 3944843860 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The converse of the following statement is

'If a triangle is equilateral then it is isosceles'

"ఒక త్రిభుజం సమ బాహు త్రిభుజం అయితే అది సమద్విబాహు త్రిభుజం" అనే ప్రవచనానికి విపర్యయం

(1) If a triangle is isosceles then it is equilateral.
ఒక త్రిభుజం సమద్విబాహు త్రిభుజం అయితే అది సమబాహు త్రిభుజం .

(2) If a triangle is not isosceles then it is not equilateral.
ఒక త్రిభుజం సమద్విబాహు త్రిభుజం కాకపోతే అది సమబాహు త్రిభుజం కాదు .

(3) If a triangle is equilateral then it is isosceles.
ఒక త్రిభుజం సమబాహు త్రిభుజం అయితే అది సమద్విబాహు త్రిభుజం.

(4) If a triangle is not equilateral then it is isosceles.
ఒక త్రిభుజం సమబాహు త్రిభుజం కాకపోతే అది సమద్విబాహు త్రిభుజం.

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 112 Question Id : 3944843861 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

ZOLLEGE.in

Which one of the following statements is true?

క్రింది ప్రవచనాలలో ఏది సత్యం?

(1) $3 \times 5 = 8 \wedge 1 \times 3 = 6$

(2) $3 + 5 = 8 \wedge 1 \times 0 = 10$

(3) $3 + 5 = 8 \wedge 1 + 2 = 3$

(4) $2 + 4 = 6 \wedge 4 + 2 = 3$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 113 Question Id : 3944843862 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If A, B, C are sets, then (A–B) – (B–C) =

A, B, C లు సమితులైతే (A – B) – (B – C) =

(1) A-(B∪C)

(2) A-(B∩C)

(3) A-C

(4) A-B

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 114 Question Id : 3944843863 Question Type : MCQ Option Shuffling : No Display

ZOLLEGE.in

Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

For $x \neq -1$, define $f(x) = \frac{x-1}{x+1}$, then $\frac{f(x)-f(y)}{1+f(x)f(y)}$ =

$f(x) = \frac{x-1}{x+1}$, $x \neq -1$ అయితే, $\frac{f(x)-f(y)}{1+f(x)f(y)}$ =

(1) $\frac{x+y}{1-xy}$

(2) $\frac{x-y}{1+xy}$

(3) $\frac{x+y}{x-y}$

(4) 1

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 115 Question Id : 3944843864 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

ZOLLEGE.in

If $f : \mathbb{R} \to \mathbb{R}$ and $g : \mathbb{R} \to \mathbb{R}$ are functions defined by $f(x) = 3x - 2$ and $g(x) = x^2 + 1$ then $(gof^{-1})(2) =$

ప్రమేయాలు $f : \mathbb{R} \to \mathbb{R}$ మరియు $g : \mathbb{R} \to \mathbb{R}$, $f(x) = 3x - 2$ మరియు $g(x) = x^2 + 1$ లచే నిర్వచింపబడితే అపుడు $(gof^{-1})(2) =$

(1) $\frac{25}{9}$

(2) $\frac{22}{9}$

(3) $\frac{17}{8}$

(4) $\frac{16}{5}$

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 116 Question Id : 3944843865 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The equation of a line perpendicular to $y = 3x+1$ and passing through (1, 1) is

(1, 1) గుండా పోతూ $y = 3x+1$ కు లంబంగా ఉండే సరళరేఖ సమీకరణము

(1) $3y + x = 12$

(2) $y + 3x = 4$

(3) $3y + x = 4$

(4) $3y = x + 2$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

ZOLLEGE.in

Question Number : 117 Question Id : 3944843866 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

A line makes intercepts a and b on the coordinate axes such that $a+b = 5$ and $ab = 6$

The equation of such a line is

$a + b = 5$ మరియు $ab = 6$ అగునట్లు నిరూపకాక్షాలపై ఏర్పరచే అంతర ఖండాలు

a, b లు అయితే ఆ సరళరేఖ సమీకరణం

(1) $3x - 2y + 6 = 0$

(2) $3x + 2y + 6 = 0$

(3) $3x - 2y - 6 = 0$

(4) $3x + 2y - 6 = 0$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 118 Question Id : 3944843867 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

Cot (-840°) + Cosec (330°) + Sec (1020°) − Sin (-1320°) =

(1) $\frac{1}{2\sqrt{3}}$

(2) $2\sqrt{3}$

(3) $-2\sqrt{3}$

(4) $\frac{-1}{2\sqrt{3}}$

Options :

Z@LLEGE.in

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 119 Question Id : 3944843868 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

$\tan^2\frac{\pi}{3} + \cot^2\frac{\pi}{4} - \sec^2\frac{\pi}{3} + 8\cos^2\frac{\pi}{6} =$

(1) 0

(2) 1

(3) 6

(4) 8

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Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 120 Question Id : 3944843869 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

ZOLLEGE.in

If $A + B = \frac{\pi}{4}$, then $(1 + \tan A)(1 + \tan B) =$

$A + B = \frac{\pi}{4}$ అయితే, $(1 + \tan A)(1 + \tan B) =$

(1) 0

(2) -1

(3) 1

(4) 2

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 121 Question Id : 3944843870 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

ZOLLEGE.in

A man walking away from the foot of a cliff 150 meters high observes that it takes 2 minutes to change the angle of elevation of the top of the cliff from 60^0 to 45^0. His walking speed in kmph is

ఒక వ్యక్తి.150 మీటర్ల ఎత్తుగల ఒక కొండ అడుగు భాగము నుండి నడుస్తున్న క్రమములో 2 నిమిషాల తర్వాత ఊర్ధ్వ కోణం 60^0 ల నుండి 45^0 కి తగ్గినట్లు గమనించాడు. అతని నడక వేగం (కిలోమీటర్/ గంటలలో)

(1) $\frac{9+3\sqrt{3}}{2}$

(2) $\frac{9-3\sqrt{3}}{2}$

(3) $\frac{3(1+3\sqrt{3})}{2}$

(4) $\frac{3(\sqrt{3}-1)}{2}$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 122 Question Id : 3944843871 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

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If α and β are two roots of the equation $ax^2 + bx + c = 0$, then $\alpha + \beta$ and $\alpha\beta$ are respectively

$ax^2 + bx + c = 0$ యొక్క మూలాలు α, β అయితే, $\alpha + \beta$ మరియు $\alpha\beta$ లు వరుసగా

(1) $\frac{b}{a}, \frac{c}{a}$

(2) $\frac{b}{a}, \frac{-c}{a}$

(3) $\frac{-b}{a}, \frac{-c}{a}$

(4) $\frac{-b}{a}, \frac{c}{a}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 123 Question Id : 3944843872 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

Z@LLEGE.in

ZOLLEGE.in

If α, β, γ are zeros the polynomial of $ax^3 + bx^2 + cx + d$, then the polynomial whose zero are $\frac{1}{\alpha}, \frac{1}{\beta}, \frac{1}{\gamma}$ =

బహుపది $ax^3 + bx^2 + cx + d$ యొక్క శూన్యాలు α, β, γ లు అయితే, $\frac{1}{\alpha}, \frac{1}{\beta}, \frac{1}{\gamma}$ శూన్యాలు గల బహుపది

(1) $bx^3 + cx^2 + dx + a$

(2) $cx^3 + dx^2 + ax + b$

(3) $dx^3 + ax^2 + bx + c$

(4) $dx^3 + cx^2 + bx + a$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Z@LLEGE.in

Question Number : 124 Question Id : 3944843873 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

ZOLLEGE.in

The remainder when f(x) = $4x^3 - 3x + 9$ is divided by $3x - 2$ is

f(x) = $4x^3 - 3x + 9$ ను $3x - 2$ చే భాగించగా వచ్చే శేషము

(1) $f\left(-\frac{3}{2}\right)$

(2) $f\left(\frac{3}{2}\right)$

(3) $f\left(\frac{2}{3}\right)$

(4) $f\left(-\frac{2}{3}\right)$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

ZOLLEGE.in

Question Number : 125 Question Id : 3944843874 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

ZOLLEGE.in

If $px^2 + qx + 17$ leaves remainder -5, 13 when divided by

$x - 5$ $x + 7$, respectively. Then $3p - q$ =

$px^2 + qx + 17$ ను $x - 5$, $x + 7$ లతో భాగించినప్పుడు వరుసగా శేషాలు -5, 13 అయితే, $3p - q$ =

(1) $\frac{35}{38}$

(2) $\frac{47}{42}$

(3) $\frac{38}{35}$

(4) $\frac{42}{47}$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 126 Question Id : 3944843875 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

Z@LLEGE.in

Vishal's age is at present four times the age of Jahnavi. After 8 years, Vishal's age will be 2.5 times Jahnavi's age. In another eight years, how many times will be vishal's age, as compared to Jahnavi's age?

ప్రస్తుతం విశాల్ వయస్సు జాహ్నవి వయస్సు కు నాలుగు రెట్లు, 8 సంవత్సరాల తరువాత, విశాల్ వయస్సు జాహ్నవి వయస్సు కు 2.5 రెట్లు ఉంటుంది. అయితే, మరో ఎనిమిది సంవత్సరాల తర్వాత విశాల్ వయస్సు, జాహ్నవి వయస్సు కు ఎన్ని రెట్లు ఉంటుంది?

(1) 1.5

(2) 2

(3) 2.5

(4) 3.25

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 127 Question Id : 3944843876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

Z@LLEGE.in

A rational number becomes $\frac{1}{4}$ when 7 is subtracted from the numerator and 3 is added to the denominator. The same number becomes 2 when 1 is added to the numerator and 7 is subtracted from the denominator. The number is

ఒక అకరణీయ సంఖ్య, లవమునుండి 7 తీసివేసి మరియు హారానికి 3 కలుపగా $\frac{1}{4}$ అవుతుంది. అదే సంఖ్య లవముకు 1 కలిపి మరియు హారమునుండి 7 తీసివేయగా ఆ సంఖ్య 2 అయితే ఆ అకరణీయ సంఖ్య

(1) $\frac{3}{5}$

(2) $\frac{7}{9}$

(3) $\frac{9}{11}$

(4) $\frac{11}{13}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 128 Question Id : 3944843877 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

Z@LLEGE.in

The sum of eight terms of an A.P. is 316 and the difference between the first and the eighth terms is 91. What is its first term?

ఒక అంకశ్రేఢి లో 8 పదాల మొత్తము 316, 1వ మరియు 8వ పదాల బేధము 91 అయితే, అంకశ్రేఢి యొక్క మొదటి పదము ఏది ?

(1) 85

(2) 74

(3) 69

(4) 48

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Z@LLEGE.in

Question Number : 129 Question Id : 3944843878 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If 5 times the 5^{th} term of an A.P. is equal to 13 times of its 13^{th} term, then the 18^{th} term of the A.P. is

ఒక అంకశ్రేఢి లో 5వ పదమునకు 5 రెట్లు దానిలో 13వ పదమునకు 13 రెట్లు కు సమానము అయితే, అంకశ్రేఢి యొక్క18వ పదము

(1) 36

(2) 18

(3) 9

(4) 0

ZOLLEGE.in

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 130 Question Id : 3944843879 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

What is the number of terms in the expansion of $(a^2 + 2ab + b^2)^{10}$?

$(a^2 + 2ab + b^2)^{10}$ విస్తరణలో పదాల సంఖ్య?

(1) 21

(2) 22

(3) 19

(4) 20

Z@LLEGE.in

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 131 Question Id : 3944843880 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

ZOLLEGE.in

The coefficient of x^{-3} in the expansion of $\left(2x^2+\frac{1}{x}\right)^{12}$ is

$\left(2x^2+\frac{1}{x}\right)^{12}$ విస్తరణలో x^{-3} యొక్క గుణకము

(1) 1862

(2) 1952

(3) 1830

(4) 1760

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 132 Question Id : 3944843881 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If $A=\begin{bmatrix}a & b\\ c & d\end{bmatrix}$ and $|A|=5$, then the determinant of $\begin{bmatrix}4a & 4b\\ 3c & 3d\end{bmatrix}$ is

$A=\begin{bmatrix}a & b\\ c & d\end{bmatrix}$ మరియు $|A|=5$ అయితే, $\begin{bmatrix}4a & 4b\\ 3c & 3d\end{bmatrix}$ నిర్ధారకము

(1) 15

(2) 20

(3) 24

(4) 60

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Question Number : 133 Question Id : 3944843882 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

If $A=\begin{bmatrix}0 & 0 & 1\\ 0 & 1 & 0\\ 1 & 0 & 0\end{bmatrix}$ and $B=\begin{bmatrix}-1 & 0 & 0\\ 0 & -1 & 0\\ 0 & 0 & -1\end{bmatrix}$, then $A^{99}B^{100}+B^{99}A^{100}=$

$A=\begin{bmatrix}0 & 0 & 1\\ 0 & 1 & 0\\ 1 & 0 & 0\end{bmatrix}$ మరియు $B=\begin{bmatrix}-1 & 0 & 0\\ 0 & -1 & 0\\ 0 & 0 & -1\end{bmatrix}$ అయితే, $A^{99}B^{100}+B^{99}A^{100}=$

(1) $AB+BA$

(2) A^2+B^2

(3) $A+B$

(4) $A+B+I$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 134 Question Id : 3944843883 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

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$$\lim_{x\to 1}\frac{x^2-\sqrt{x}}{\sqrt{x}-1} =$$

(1) 1

(2) 2

(3) 3

(4) 4

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 135 Question Id : 3944843884 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The derivative of $f(x) = \frac{x^2+3}{x-1}$ is

$f(x) = \frac{x^2+3}{x-1}$ యొక్క అవకలజము

(1) $\frac{(x-1)x-(x^2+3)}{(x-1)^2}$

(2) $\frac{(x-1)2x-(x^2+3)}{(x-1)^2}$

(3) $\frac{(x+1)x-(x^2+3)}{(x-1)^2}$

(4) $\frac{(x-1)2x-(x^2-3)}{(x-1)^2}$

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3

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4. ✖ 4

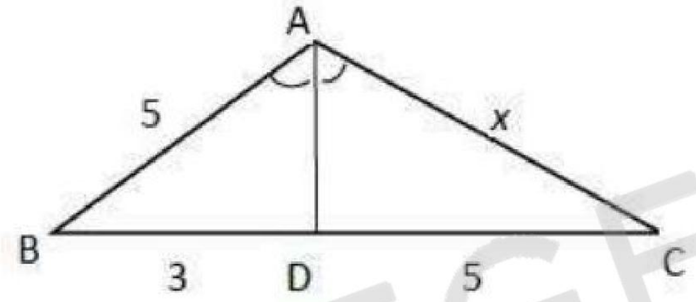
Question Number : 136 Question Id : 3944843885 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

In the adjacent figure AD is the bisector of ∟A. AC =

ప్రక్క పటములో ∟A యొక్క సమద్విఖండన రేఖ AD అయితే AC =



(1) $1\frac{3}{5}$

(2) $5\frac{2}{7}$

(3) $7\frac{4}{9}$

(4) $8\frac{1}{3}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Question Number : 137 Question Id : 3944843886 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

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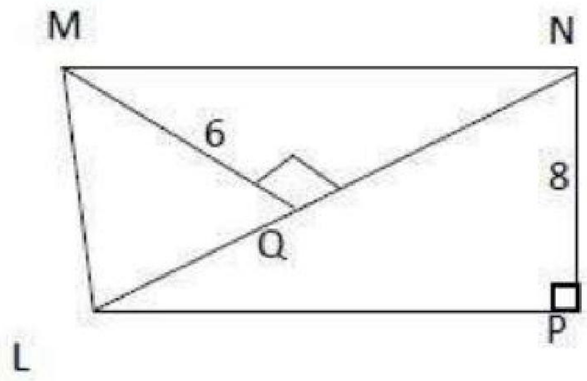
In the quadrilateral $\angle MNP$ shown below, PN = 8, MQ ⊥ LN and MQ = 6. If the area of $\triangle LNP = 32$, then the area of $\triangle$LMN =

ఇక్కడ ఇచ్చిన పటములో చతుర్భుజము $\angle MNP$ లో, PN = 8, MQ ⊥ LN మరియు MQ = 6 LNP త్రిభుజ వైశాల్యము = 32 అయితే, LMN త్రిభుజ వైశాల్యము=



(1) $24\sqrt{2}$

(2) $24\sqrt{3}$

(3) 32

(4) 24

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 138 Question Id : 3944843887 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

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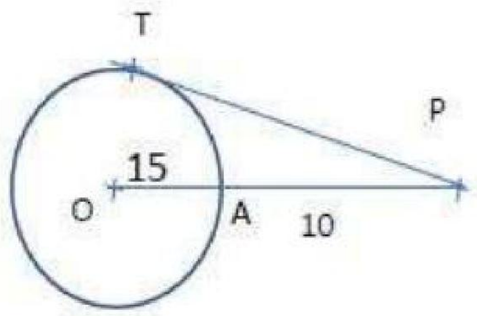
In the adjacent figure, the length of the tangent PT given that OA = 15 cm and AP = 10 cm (in cm) is

ప్రక్క పటములో OA=15 మరియు A P = 10 అని ఇస్తే, స్పర్శ రేఖ PT యొక్క పొడవు (సెం. మీ.) లలో



(1) 25

(2) 22

(3) 20

(4) 18

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 139 Question Id : 3944843888 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

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If the point (1,4) is the centroid of a triangle ABC with verticies A(4, -8), B(-9, 7), then the distance AC in units is

బిందువు (1, 4) అనేది A(4, -8), B(-9, 7) శీర్షాలు గల త్రిభుజము ABC గురుత్వ కేంద్రము అయితే AC (యూనిట్లలో) =

(1) $\sqrt{286}$

(2) $\sqrt{326}$

(3) $\sqrt{368}$

(4) $\sqrt{457}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 140 Question Id : 3944843889 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Algebraic and Geometrical Ability
బీజీయ, జ్యామితీయ సామర్థ్యత

The points A (2, -3), B(6, 5), C (-2,1) and D(-6, -7) form

A (2, -3), B(6, 5), C (-2,1) మరియు D(-6, -7) బిందువులతో ఏర్పడేది

(1) Square (1) చతురస్రం

(2) Rectangle (2) దీర్ఘచతురస్రం

(3) Parallelogram (3) సమాంతర చతుర్భుజము

(4) Rhombus (4) సమ చతుర్భుజము

Options :

1. ✖ 1

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2. ✖ 2

3. ✖ 3

4. ✔ 4

Sub-Section Number : 3

Sub-Section Id : 394484391

Question Shuffling Allowed : Yes

Question Number : 141 Question Id : 3944843890 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

If the arithmetic mean of *a*, *b*, 7 is 13, then the arithmetic mean of

$a + 3, b - 5$ and 6 is

a, *b*, 7 ల అంకమధ్యమము 13 అయితే, $a + 3, b - 5$ మరియు 6ల అంకమధ్యమము ఎంత

(1) 9

(2) 10

(3) 12

(4) 16

Options :

1. ✖ 1

2. ✖ 2

3. ✔ 3

4. ✖ 4

Question Number : 142 Question Id : 3944843891 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

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Median of the data 14, 2, 8, 5, 12, 4, 1, 16, 3 is

దత్తాంశం 14, 2, 8, 5, 12, 4, 1, 16, 3 యొక్క మధ్యగతము

(1) 5

(2) 8

(3) 11.5

(4) 12

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 143 Question Id : 3944843892 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

What is the Mode of the following data?

ఈ క్రింది దత్తాంశము యొక్క బాహుళకము ఎంత?

Observations పరిశీలనలు	1	2	3	4	5	6	7	8
Frequency పౌనఃపున్యము	4	9	16	25	22	15	7	3

(1) 4

(2) 5

(3) 3

(4) 6

Options :

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1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 144 Question Id : 3944843893 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

The standard Deviation of the following 13 observations is

73, 74, 75, ..., 85

ఈ క్రింది 13 పరిశీలనల యొక్క క్రమ విచలనము

73, 74, 75, ..., 85

(1) 17

(2) 14

(3) $\sqrt{17}$

(4) $\sqrt{14}$

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 145 Question Id : 3944843894 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

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If σ is the standard deviation of the observatins $x_1, x_2, \ldots, x_n$, then the standard deviation of $12x_1 + 13, 12x_2 + 13, \ldots, 12x_n + 13$ is

$x_1, x_2, \ldots, x_n$, పరిశీలనల క్రమ విచలనము σ అయితే,

$12x_1 + 13, 12x_2 + 13, \ldots, 12x_n + 13$ ల యొక్క క్రమ విచలనము

(1) 12σ

(2) $\sigma - 13$

(3) $\sigma + 13$

(4) σ

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

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Question Number : 146 Question Id : 3944843895 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

ZOLLEGE.in

A computer, while calculatin coefficient between two variables X and Y, obtained the following results:

$N = 25, \sum x = 125, \quad \sum y = 100, \quad \sum x^2 = 650, \quad \sum y^2 = 460$ and $\sum xy = 508$

At the time of checking, it is found that it copied two pairs of observations as

x	y
6	14
8	6

in the place of correct pairs

x	y
8	12
6	8

. The correct value of the coefficient of correlation r is

ఒక గణన యంత్రము (కంప్యూటర్) రెండు చలరాశుల మధ్య సహ సంబంధ గుణకం గణించేటప్పుడు ఈ క్రింది ఫలితాలు వచ్చాయి.

$N = 25, \sum x = 125, \quad \sum y = 100 \quad , \sum x^2 = 650, \quad \sum y^2 = 460, \quad \sum xy = 508$

తనికీ చేస్తున్నపుడు ఒక పరిశీలనల సరియైన జత

x	y
8	12
6	8

కు బదులుగా

x	y
6	14
8	6

గా నమోదు చేయబడినట్లుగా గుర్తిస్తే, సహ సంబంధగుణకము r యొక్క సరియైన విలువ

(1) 0.56
(2) 0.62
(3) 0.67
(4) 0.72

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 147 Question Id : 3944843896 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

ZOLLEGE.in

A and B are two events such that $P(A)=\frac{2}{3}$, $P(\overline{A}\cap B)=\frac{1}{6}$ and $P(A\cap B)=\frac{1}{3}$,

then $P(\overline{A}\cup B)=$

$P(A)=\frac{2}{3}$, $P(\overline{A}\cap B)=\frac{1}{6}$, $P(A\cap B)=\frac{1}{3}$ అయ్యేటట్లు రెండు ఘటనలు A మరియు B

అయితే $P(\overline{A}\cup B)=$

(1) $\frac{1}{6}$

(2) $\frac{1}{2}$

(3) $\frac{2}{3}$

(4) $\frac{3}{4}$

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 148 Question Id : 3944843897 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

Three dice are rolled. What is the probability of getting a total of 5

మూడు పాచికలు దొర్లించబడ్డాయి. అయితే, మొత్తము 5 రావటానికి సంభావ్యత

(1) $\frac{1}{6}$

(2) $\frac{1}{36}$

(3) $\frac{5}{216}$

(4) $\frac{1}{216}$

Options :

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1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 149 Question Id : 3944843898 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

If $P(A) = 0.7$, $P(\bar{B}) = 0.45$ and $P(\bar{A} \cup \bar{B}) = 0.6$, then $P(AUB) =$

$P(A) = 0.7$, $P(\bar{B}) = 0.45$ మరియు $P(\bar{A} \cup \bar{B}) = 0.6$ అయితే, $P(AUB) =$

(1) 0.75

(2) 0.85

(3) 0.40

(4) 0.60

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 150 Question Id : 3944843899 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Statistical Ability

సాంఖ్యకశాస్త్ర సామర్థ్యత

Z@LLEGE.in

A box has 5 white and 2 red balls. Another box has 3 white and 4 red balls. One ball is randomly selected from the first box and it is transferred to second box. Then one ball is randomly drawn from the second box. The probability that it is red is

ఒక పెళ్ళెలో 5 తెలుపు మరియు 2 ఎరుపు బంతులు కలవు. ఇంకో పెళ్ళెలో 3 తెలుపు మరియు 4 ఎరుపు బంతులు కలవు. మొదటి పెళ్ళె నుండి ఒక బంతిని యాదృచ్ఛికంగా ఎంపికచేసి దానిని రెండవ పెళ్ళెలోకి మార్చబడింది. అయితే ఒక బంతిని యాదృచ్ఛికంగా రెండవ పెళ్ళె నుండి తీస్తే అది ఎరుపు బంతి అయ్యే సంభావ్యత

(1) $\frac{15}{28}$

(2) $\frac{9}{16}$

(3) $\frac{5}{14}$

(4) $\frac{5}{28}$

Z@LLEGE.in

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Communication Ability

Section Id :	39448457
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	38
Number of Questions to be attempted :	38
Section Marks :	50
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	394484392
Question Shuffling Allowed :	Yes

Question Number : 151 Question Id : 3944843900 Question Type : MCQ Option Shuffling : No Display

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Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Ordeal

(1) Deal
(2) Task
(3) Order
(4) Offer

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 152 Question Id : 3944843901 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Acumen

(1) Dullness
(2) Hesitancy
(3) Lethargy
(4) Sharpness

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 153 Question Id : 3944843902 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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Novice

(1) Writer
(2) Poet
(3) Expert
(4) Beginner

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 154 Question Id : 3944843903 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Timorous

(1) Fearful
(2) Fearsome
(3) Fiercely
(4) Violent

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 155 Question Id : 3944843904 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Tacit

(1) Sober
(2) Sluggish
(3) Silently understood
(4) Spurious

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Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 156 Question Id : 3944843905 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Burly

(1) Puny
(2) Well-built
(3) Small
(4) Huge

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Sub-Section Number : 2

Sub-Section Id : 394484393

Question Shuffling Allowed : Yes

Question Number : 157 Question Id : 3944843906 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

_____ in the idea of democracy is the notion of individual liberty

(1) Impassive
(2) Indolent
(3) Implicit
(4) Incarnate

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3

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4. ✖ 4

Question Number : 158 Question Id : 3944843907 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

After retiring from the army, he missed the ____ of fellow soldiers.

(1) Friendship
(2) Consanguinity
(3) Conservancy
(4) Curtain

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 159 Question Id : 3944843908 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

The Judge told the convicted man that he would come to ____ his decision to commit the crime.

(1) Rue
(2) Venerate
(3) Appease
(4) Allay

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 160 Question Id : 3944843909 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

An unexpected piece of good fortune is _____.

(1) Downfall
(2) Windfall
(3) Rainfall
(4) Fortuitous

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Sub-Section Number : 3
Sub-Section Id : 394484394
Question Shuffling Allowed : Yes

Question Number : 161 Question Id : 3944843910 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Decrease in value of an asset over a period of time is called _____.

(1) Loss
(2) Demand
(3) Depreciation
(4) Appreciation

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 162 Question Id : 3944843911 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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The speed of a supercomputer is measured in ___.

(1) GIPS
(2) Mhz
(3) Ghz
(4) FLOPS

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 163 Question Id : 3944843912 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

A computer program that performs tasks that the user wishes to perform is known as ___.

(1) Animation
(2) Application software
(3) Antivirus software
(4) Affiliate

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 164 Question Id : 3944843913 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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The list of events to be discussed or done at a meeting or business event is called ___.

(1) Agenda
(2) Minutes
(3) Deed
(4) Document

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 165 Question Id : 3944843914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

A type of computer that can be carried easily and which has no physical keyboard or track pad is known as ___.

(1) Personal computer
(2) Gnome
(3) Desktop
(4) Tablet

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 166 Question Id : 3944843915 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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A reduction in expenditure is known as _____.

(1) Cutback
(2) Cutdown
(3) Cut price
(4) Cut out

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 167 Question Id : 3944843916 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

The four Ps of Marketing are expanded as _____.

(1) Product, Price, Place, Promotion
(2) Person, Performance, Public, Position
(3) Port, People, Product, Persuasion
(4) Plant, Production, Promotion, Plan

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 168 Question Id : 3944843917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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Language designed specifically for scientific computing is _____.

(1) PASCAL
(2) COBOL
(3) FORTRAN
(4) C++

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 169 Question Id : 3944843918 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Classical organization theory looks at an organization_____.

(1) As a liberal system
(2) As a machine
(3) As a tall structure
(4) As a production process

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 170 Question Id : 3944843919 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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The process of motivating employees to retire from the service prematurely by paying them substantial cash is called giving _____

(1) Pink Slip
(2) Grand Send-off
(3) Gratuity
(4) Golden Handshake

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Sub-Section Number : 4
Sub-Section Id : 394484395
Question Shuffling Allowed : Yes

Question Number : 171 Question Id : 3944843920 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

A person whose abilities are not fully known

(1) A damp squib
(2) An eyesore
(3) A dark horse
(4) A black sheep

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 172 Question Id : 3944843921 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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A: "The curtains look faded. Should we change them?"

B: "Money doesn't grow on trees."

"B" is

(1) Agreeable
(2) Thrifty
(3) Lazy
(4) Indifferent

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 173 Question Id : 3944843922 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Switch on the computer. (Change the voice)

(1) Computer is switched on.
(2) Computer was switched on.
(3) Let the computer be switched on.
(4) He let the computer to switch on.

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 174 Question Id : 3944843923 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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A: 'Have you taken up your new job?'
B: 'Not yet. I am made to cool my heals as my boss is undecided about my assignment.'

In this conversation 'B' implies that he

(1) Is prevented to take up new job
(2) Is kept waiting
(3) Is made to relax
(4) Is made to repent for his mistakes

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 175 Question Id : 3944843924 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

A: Naveen looks quite happy these days
B: Why wouldn't he be! His marriage is on the cards.

'B' implies that Naveen's

(1) Marriage is likely to happen
(2) Marriage is predicted by an astrologer
(3) Marriage has been celebrated recently
(4) Marriage proposal is likely to crop up.

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 176 Question Id : 3944843925 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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After retirement, Mr Mishra is thinking of resting on his oars.

The underlined expression means

(1) Depend on his savings
(2) Rest after hard work
(3) Cashing on his vast experience
(4) Settle in a foreign location

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 177 Question Id : 3944843926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

This has to be done by next week. We must get our act together before it is too late.

The underlined expression means

(1) Be more organised
(2) Be punctual
(3) Work hard
(4) Put a play together

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Sub-Section Number : 5
Sub-Section Id : 394484396
Question Shuffling Allowed : Yes

Question Number : 178 Question Id : 3944843927 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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Every now and then she would _____ a remark.

(1) Put out
(2) Put up
(3) Put off
(4) Put in

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 179 Question Id : 3944843928 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

My daughter along with her children _____ to watch a movie about animals and their habitats

(1) Is going
(2) Be going
(3) Will going
(4) Are going

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 180 Question Id : 3944843929 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

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The old man climbed five floors hardly with _____ at all.

(1) No effort
(2) Any effort
(3) Every effort
(4) All effort

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 181 Question Id : 3944843930 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

All the passengers ____ COVID-19 screening before they move to the departure gates.

(1) Requested to go for
(2) Are requested for going to
(3) Are requested to go for
(4) Have requested for going to

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 182 Question Id : 3944843931 Question Type : MCQ Option Shuffling : No Display
Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Switzerland is known for its ___ environment

(1) Lugubrious
(2) Salubrious
(3) Vituperative
(4) Unpleasant

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Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 183 Question Id : 3944843932 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Sometimes a student's intelligence is not fully appreciated ____ he/she gets an opportunity to show it.

(1) If
(2) Whether
(3) Later
(4) Unless

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 184 Question Id : 3944843933 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Child labour is one of the critical socio-economic _____ urgent attention in India.

(1) Issue that need
(2) Issue what need
(3) Issues that need
(4) Issues what needs

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

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Question Number : 185 Question Id : 3944843934 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct word/Correct Meaning of the Word/Fill in the Blanks with correct word /Phrase / Verb / Preposition

Rajni was always ahead of Ramesh in studies. However, Ramesh worked hard and ___ with Rajni.

(1) Caught out
(2) Caught up
(3) Caught on
(4) Caught in

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Sub-Section Number : 6
Sub-Section Id : 394484397
Question Shuffling Allowed : Yes

Question Id : 3944843935 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (186 to 190)

Read the following passage and answer questions

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We often worry about lying awake in the middle of the night – but it could be good for you. A growing body of evidence from both science and history suggest that the eight-hour sleep may be unnatural.

In the early 1990s, psychiatrist Wehr conducted an experiment in which a group of people were plunged into darkness for 14 hours every day for a month. It took some time for their sleep to regulate but by the fourth week the subjects had settled into a very distinct sleeping pattern. They slept first for four hours, then woke for one or two hours before falling into a second four-hour sleep. Though sleep scientists were impressed by the study, among the general public the idea that we must sleep for eight consecutive hours persists.

In 2001, historian Roger Ekirch of Virginia Tech published a seminal paper, drawn from 16 years of research, revealing a wealth of historical evidence that humans used to sleep in two distinct chunks. Roger Ekirch says a 1595 engraving by Jan Saenredam is evidence of activity at night. His book "At Day's Close: Night in Times Past," published four years later unearths more than 500 references to a segmented sleep pattern in diaries, court records, medical books and literature, from Homer's Odyssey to an anthropological account of modern tribes in Nigeria.

Ekirch found that references to the first and second sleep started to disappear during the late 17th century. This started among the urban upper classes in northern Europe and over the course of the next 200 years filtered down to the rest of western society. By the 1920s the idea of a first and second sleep had receded entirely from our social consciousness. He attributes the initial shift to improvements in street lighting, domestic lighting and a surge in coffee houses – which were sometimes open all night. As the night became a place for legitimate activity and as that activity increased the length of time people could dedicate to rest dwindled.

Sub questions

Question Number : 186 Question Id : 3944843936 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following assumptions is the writer questioning here?

(1) Everyone needs eight hours of continuous sleep
(2) Everyone needs to sleep in darkened rooms
(3) Everyone sleeps well after dusk but wakes up by dawn
(4) Everyone can get good sleep after a tiring day.

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 187 Question Id : 3944843937 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

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Correct Marks : 1 Wrong Marks : 0

Who conducted sixteen years of research on sleep patterns of people?

(1) Saenredam
(2) Ekirch
(3) Wehr
(4) Homer

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 188 Question Id : 3944843938 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What reasons did Ekrich give to explain reduced periods of rest?

(1) More electricity in public and private places and more coffee houses.
(2) Greater opportunities to go out anywhere at any time
(3) Offices extending working through the day and night
(4) Better and safer streets in cities.

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 189 Question Id : 3944843939 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

In Wehr's experiment how long did the people take to adjust to the new sleeping pattern?

(1) Fourteen hours
(2) Two weeks
(3) Four weeks
(4) Four hours

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

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Question Number : 190 Question Id : 3944843940 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which word in the passage means the same as 'hold responsible for'?

(1) Persist
(2) Attribute
(3) Recede
(4) Regulate

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Sub-Section Number :	7
Sub-Section Id :	394484398
Question Shuffling Allowed :	Yes

Question Id : 3944843941 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (191 to 195)

Read the following passage and answer questions

The United States and Canadian governments are mounting a defence against Russian invasion. No, the clock has not been turned back. These invaders are Asian gypsy moths, foliage-chomping insects that can cause billions of dollars in damage. Experts believe they entered North America from Russia last year in egg masses attached to grain vessels. The larger Asian gypsy moth is more voracious feeder than the common North American strain and can feed on pacific northwest tree species. Unlike the flightless North American female, an Asian female can fly 20 miles between mating and egg-laying. The United States Health Inspection Service is barring from west coast ports ships found carrying egg masses. The Tacoma and Portland areas, as well as Vancouver, British Columbia has been sprayed with a bio-pesticide.

Sub questions

Question Number : 191 Question Id : 3944843942 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The word 'strain' in the passage means

(1) A tendency in person's character
(2) An injury
(3) A distinct breed of an organism
(4) A species

Options :

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1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 192 Question Id : 3944843943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which of the following words refers to the eating habits of Asian moths?

(1) Voracious
(2) Foliage
(3) Species
(4) Biopesticide

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 193 Question Id : 3944843944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The author calls the increase in Asian gypsy moths as 'Russian invasion'

(1) To remind reader of Russian invasion
(2) To show dislike for Russia
(3) To make light of serious situation
(4) To emphasize the severity of the problem

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Question Number : 194 Question Id : 3944843945 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which of the following statements is not given in the passage?

(1) Asian gypsy moth came from Russia
(2) Asian gypsy moth can't fly
(3) Asian gypsy moth is capable of feeding on North American trees
(4) North American moth can't fly

Options :

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1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 195 Question Id : 3944843946 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The idiom "clocks haven't turned back" in the context of the passage means

(1) It is an impending future event
(2) It is not an impending future event
(3) It is a repetition of past events
(4) It is not a repetition of past events.

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Sub-Section Number :	8
Sub-Section Id :	394484399
Question Shuffling Allowed :	Yes

Question Id : 3944843947 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (196 to 200)

Read the following passage and answer questions

Most investigators concur that certain facial expressions suggest the same emotions to all people. Moreover, people in diverse cultures recognise the emotions manifested by the facial expressions. In classic research Paul Ekman took photographs of people exhibiting the emotions of anger, disgust, fear, happiness and sadness. He then asked people around the world to indicate what emotions were being depicted in them. Those queried ranged from European college students to members of the Fore, a tribe that dwells in the New Guinea highlands. All groups, including the Fore, who had almost no contact with Western culture, agreed on the portrayed emotions. The Fore also displayed familiar facial expressions when asked how they would respond if they were the characters in the stories that called for basic emotional responses. Ekman and his colleagues more recently obtained similar results in a study of ten cultures in which participants were permitted to report that multiple emotions were shown by facial expressions. The participants generally agreed on which two emotions were being shown and on which emotion was more intense.

Sub questions

Question Number : 196 Question Id : 3944843948 Question Type : MCQ Option Shuffling : No Display

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Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What does the word 'concur' in the passage refer to?

(1) Estimate
(2) Agree
(3) Expect
(4) Understand

Options :

1. ✖ 1
2. ✔ 2
3. ✖ 3
4. ✖ 4

Question Number : 197 Question Id : 3944843949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What was the purpose of the experiment?

(1) To explore the range of human emotions
(2) To investigate the nature of tribal emotions
(3) To underscore the commonality in facial expressions for basic emotional responses across cultures
(4) To analyse emotions in Western cultures

Options :

1. ✖ 1
2. ✖ 2
3. ✔ 3
4. ✖ 4

Question Number : 198 Question Id : 3944843950 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Who are members of Fore?

(1) A group of European college students
(2) A group of professional photographers
(3) A group of investigators
(4) Members of tribe belonging to New Guinea

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3

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4. ✔ 4

Question Number : 199 Question Id : 3944843951 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What was the group of people on whom subsequent researches were conducted to obtain similar results as earlier?

(1) People from ten cultures
(2) People from Europe and New Guinea
(3) Ekman's research colleagues
(4) Members of Fore

Options :

1. ✔ 1
2. ✖ 2
3. ✖ 3
4. ✖ 4

Question Number : 200 Question Id : 3944843952 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What was the additional outcome of subsequent investigation by Ekman?

(1) Validation of the earlier research
(2) Preparation of documentary report
(3) Approval by participants
(4) Agreement on facial expressions reflecting level of intensity of emotion

Options :

1. ✖ 1
2. ✖ 2
3. ✖ 3
4. ✔ 4

Z@LLEGE.in