

SNAP 2021 Question Paper

Time Allowed :2 Hours	Maximum Marks :60	Total Questions :60
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General Instructions

1. SNAP 2021 is a **Computer-Based Test (CBT)** of **60 minutes**.
2. The test comprises **60 multiple-choice questions** across three sections: General English (15), Analytical & Logical Reasoning (25), and Quantitative, Data Interpretation & Data Sufficiency (20).
3. **Marking Scheme:** +1 mark for each correct answer; **-0.25 mark** for each incorrect answer.
4. There is **no sectional time limit**. Manage your time wisely.
5. Carry a **colour printout** of your **SNAP 2021 Admit Card** with a recent passport-size colour photo pasted in the space provided.
6. Bring a valid, **original government photo ID** (e.g., Aadhaar, Passport, PAN, Driving Licence).
7. You may carry a **simple black/blue ball point pen** (for attendance/rough work as instructed).
8. **Reporting time** and test session are as mentioned on your admit card; late entry may not be permitted.
9. Only the Admit Card, valid Photo ID and a simple ball pen are allowed at your workstation. **Electronic gadgets** (mobile phones, smart watches, calculators, digital devices, etc.) are **strictly prohibited**.

1. Milk and water in two vessels A and B are in the ratios 4:3 and 2:3 respectively. In what ratio should the liquids from both vessels be mixed to obtain a new mixture (vessel C) that is half milk and half water?

- (A) 1:1
 - (B) 7:5
 - (C) 2:4
 - (D) 1:3
-

2. There are 6 tickets to the theater, 4 of which are for seats in the front row. If 3 tickets are selected at random, what is the probability that exactly two of them are for the front row?

- (A) 0.6
 - (B) 0.7
 - (C) 0.9
 - (D) $\frac{1}{3}$
-

3. When 75% of a number is added to 75, the result is the same as the number. Find the number.

- (A) 150
 - (B) 300
 - (C) 100
 - (D) 450
-

4. If five spiders can catch five flies in 5 minutes, how many flies can one hundred spiders catch in 100 minutes?

- (A) 100
 - (B) 1000
 - (C) 500
 - (D) 2000
-

5. The value is $5^{1/4} \times (125)^{0.25}$

- (A) 5
 - (B) 25
 - (C) 50
 - (D) 10
-

6. The average of five consecutive numbers is n. If the next two numbers are also included, then the average will-

- (A) remain the same
- (B) increase by one

- (C) increase by 1.4
(D) increase by 2
-

7. When a heap of pebbles is grouped in 32, 40, or 72, it leaves remainders 10, 18, and 50 respectively. What is the minimum number of pebbles in the heap?

- (A) 1416
(B) 1418
(C) 1412
(D) 1420
-

8. Symbiosis runs a corporate training programme. At the end of the first programme, the total takings were 38950. There were more than 45 but fewer than 100 participants. What was the participants' fee?

- (A) 410
(B) 450
(C) 500
(D) 510
-

9. Three friends had dinner at a restaurant. When the bill arrived, Amit paid $\frac{2}{3}$ as much as Veena paid, and Veena paid $\frac{1}{2}$ as much as Tanya paid. What fraction of the bill did Veena pay?

- (A) $\frac{1}{4}$
(B) $\frac{3}{5}$
(C) $\frac{3}{11}$
(D) $\frac{1}{2}$
-

10. Starting from his house one day, a student walks with a speed of $2\frac{1}{2}$ km/h and reaches school 6 minutes late. Next day he increases his speed by 1 km/h and reaches 6 minutes early. How far is the school from the house?

- (A) 1 km
(B) $1\frac{1}{4}$ km
(C) $1\frac{3}{4}$ km
(D) 2 km
-

11. The number of students studying Physics, Chemistry, and Zoology are in the ratio 4 : 3 : 5. If the numbers in these three disciplines increased by 50%, 25%, and 10% respectively in the next year, what is the new respective ratio?

- (A) 24 : 15 : 22
(B) 18 : 11 : 13

- (C) 24 : 13 : 17
(D) CANNOT BE DETERMINED
-

12. A, B, and C start a business, each investing 20,000. After 5 months, A withdraws 5,000, B withdraws 4,000, and C invests 6,000 more. At the end of the year, the total profit is 69,900. What is B's share of the profit?

- (A) 20,500
(B) 21,200
(C) 28,200
(D) 27,300
-

13. The difference between two numbers is 1365. When the larger is divided by the smaller, the quotient is 6 and the remainder is 15. What is the smaller number?

- (A) 240
(B) 360
(C) 270
(D) 295
-

14. Given below are three statements. Study the question and statements to identify which options are necessary to answer the question:

Question: What is the principal sum?

- I. The interest amount after 30 months is half the interest amount after five years.
II. The sum amounts to 750 in five years at simple interest.
III. The rate of interest is 8% p.a.

- (A) One and three only
(B) Two and three only
(C) One and two only
(D) One and three only or two and three only
-

15. A man purchased 40 fruits: apples and oranges for 17. Had he purchased as many oranges as apples and as many apples as oranges (i.e., swapped the quantities), he would have paid 15. Find the cost of one pair (one apple + one orange).

- (A) 70 paise
(B) 60 paise
(C) 80 paise
(D) 1 rupee
-

16. If $n = 1 + X$ where X is the product of four consecutive positive integers, which of the following are true?

1. n is odd 2. n is prime 3. n is a perfect square.

- (A) 1 and 3 only
 - (B) 1 and 2 only
 - (C) 1 only
 - (D) none of these
-

17. A rainy day occurs once in every 10 days. Half of the rainy days produce rainbows. What percent of all the days do not produce a rainbow?

- (A) 95%
 - (B) 10%
 - (C) 50%
 - (D) 5%
-

18. Inside a triangular park, there is a flower bed, forming a similar triangle. Around the flower bed runs a uniform path so that the sides of the park are exactly double the corresponding sides of the flower bed. The ratio of areas of the path to the flower bed is:

- (A) 1:1
 - (B) 1:2
 - (C) 1:3
 - (D) 3:1
-

19. Area of a square natural lake is 50 (square miles). A diver wishing to cross the lake diagonally will have to swim a distance of—

- (A) 10 miles
 - (B) 12 miles
 - (C) 15 miles
 - (D) None of the above
-

20. A ladder is leaning against a wall which is 5 meters high. If the ladder's foot is 2 meters from the wall and the top touches the top edge of the wall, what is the length of the ladder?

- (A) 5 m
 - (B) 5.25 m
 - (C) 7.75 m
 - (D) 4 m
-

21. Virtuoso means?

- (A) Skilled performer.
- (B) Amateur.

- (C) Good person.
 - (D) Professional.
-

22. Hierarchy : ranked :: ?

- (A) Equation : solved
 - (B) Critique : biased
 - (C) Chronology : sequential
 - (D) Infinity : fixed
-

23. She ordered the taxi driver, "Drive faster, _____?"

- (A) Won't you
 - (B) Will you
 - (C) You must
 - (D) Can't you
-

24. Her written statements failed to be consistent _____ what she said earlier.

- (A) On
 - (B) With
 - (C) In
 - (D) To
-

**25. Choose the correct alternative that best explains the following idiom:
"Writing on the wall."**

- (A) Graffiti
 - (B) Obvious truth
 - (C) Foreboding
 - (D) Prediction
-

26. Although many of the members were _____ about the pending deal, others were _____ about the benefits it would bring.

- (A) Euphoric, confident
 - (B) Optimistic, dubious
 - (C) Angry, skeptical
 - (D) Confused, pleased
-

27. Select the letter pair that best expresses a relationship similar to that expressed by the original pair: BOOK:RIVER.

- (A) Vein: artery

- (B) Path: highway
 - (C) Yard: alley
 - (D) Pen: paper
-

28. 'But for cancer, I would not have given up his smoking.' In this sentence, 'But' is —

- (A) An adverb
 - (B) A preposition
 - (C) An adjective
 - (D) A verb
-

29. For the following sentences, choose the correct option:

I. The team quickly took their positions on the field.

II. The team quickly took its position on the field.

- (A) The first sentence is wrong.
 - (B) The second sentence is wrong.
 - (C) Both are correct.
 - (D) Both are wrong.
-

30. Choose the erroneous underlying segment or option D if no error: He carried his clothes (a) in a black heavy (b) steel trunk (c).

- (A) A
 - (B) B
 - (C) C
 - (D) D
-

31. Choose the erroneous underlying segment or option D if no error: The corpse (a) had been dead (b) for five days (c).

- (A) A
 - (B) B
 - (C) C
 - (D) D
-

32. Identify the odd one:

- (A) Ashoka was one of the greatest kings.
 - (B) Ashoka was greater than many other kings.
 - (C) Ashoka was the greatest king.
 - (D) Very few kings were as great as Ashoka.
-

33. Identify the sentence that gives the same meaning as: He said, "Yes, I'll come and see you."

- (A) He accepted that he will come and see me.
 - (B) He said that he will come and see me.
 - (C) He agreed that he will come and see me.
 - (D) He said that he would come and see me.
-

34. I had met him _____ year ago.

- (A) a
 - (B) an
 - (C) the
 - (D) none
-

35. He is _____ honorable man.

- (A) a
 - (B) an
 - (C) the
 - (D) none
-

Directions for Q36-Q37

Given series for Q36-Q37:

6 7 8 9 8 9 8 7 9 7 7 8 9 7 8 7 6 9 6 8 9 7 7 9 8 9 7 7 6 6 8 7

36. How many such digits are there in the given series each of which, when subtracted from the following digit, gives 1 as the result?

- (A) Three
 - (B) Four
 - (C) None
 - (D) More than four
-

37. Which number is obtained when the 18th number from the right end is added to the 19th number from the left end of the series?

- (A) 17
 - (B) 15
 - (C) 16
 - (D) 18
-

38. Directions: Each of the following consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

Question: Eight persons are standing in two parallel rows, such that four persons stand in row-X facing north and four stand in row-Y facing south. In this way, person in one row faces the person of other row. Who faces C?

Statement I: A is second to the right of B, who is an immediate neighbor of D. E stands in row-Y and faces G, who is immediate left of H. C is on the immediate right of the one who faces A.

Statement II: F stands at the left end in row-Y. A is facing I, who is second to the left of E. A stands in row-X. C and F are the immediate neighbors of I.

- (A) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
(B) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
(C) if the data either in statement I alone or in statement II alone is sufficient to answer the question.
(D) If the data in both statement I and II together are not sufficient to answer the question.
-

39. Question: Point Z is in which direction from Point B?

Statement I: Point X is towards 15m south of Point Y. Point Z is towards 5m west of Point X, which is 13m south-east of Point B.

Statement II: Point B is 6m west of Point X. Point Y is 12m east of Point Z, which is 8m to the north of Point X.

- (A) If the data in statement I alone is sufficient to answer the question.
(B) If the data in statement II alone is sufficient to answer the question.
(C) if the data either in statement I alone or in statement II alone is sufficient to answer the question.
(D) If the data in both statement I and II together are not sufficient to answer the question.
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Directions for Q41-Q42

Twelve persons are sitting in a parallel row and opposite to each other. In row 1-L,M,N,O,P and Q face the south. In row 2-A,B,C,D,E and F face the north but not necessarily in the same order. L sits opposite to the one who sits second to the left of F. only two persons sits between B and F. B sits to the left of F. the number of persons sits to the left of L Is the same as the number of persons sits right to the P. N sits second to the right of P. A sits immediate left of D, none of them sits at the end of the row. C sits opposite to the one who sits second to the left of Q. O and P are not immediate neighbours.

Solution to the Puzzle:

Based on a step-by-step deduction from the given clues, the final arrangement is as follows:

Row 1 (South Facing): O L N Q P M

(Positions from left to right: 1-O, 2-L, 3-N, 4-Q, 5-P, 6-M)

Row 2 (North Facing): B A D F E C

(Positions from left to right: 1-B, 2-A, 3-D, 4-F, 5-E, 6-C)

Opposite pairs: O-B, L-A, N-D, Q-F, P-E, M-C

41. What is the position of Q with respect to L?

- (a) immediate left
- (b) immediate right
- (c) second to the right
- (d) second to the left

42. Who among the following pairs are sitting next to each other? I. OB II. PE III. LD IV. MF

- (a) only II and III
- (b) only I and II
- (c) only III and IV
- (d) only I and III

43. Statements: All myntra is Ajio. Some ajio is flipkart. Only a few flipkart is amazon. No amazon is lenskart.

Conclusions: I) Some flipkart is not lenskart. II) All ajio is lenskart is a possibility.

- (A) Only conclusion I is followed
- (B) Both conclusions I and II followed
- (C) Neither conclusion I and II is followed
- (D) Only conclusion II follows

44. Statements: Some planets are earth. Only a few earth is sun. Only sun is galaxy. No sun is milkyway.

Conclusions: I) Some earth is not milkyway. II) Some galaxy is planet is a possibility.

- (A) Only conclusion I is followed
- (B) Both conclusions I and II followed
- (C) Neither conclusion I and II is followed
- (D) Only conclusion II follows

45. Statements: Some science is not maths. All maths is physics. Only a few physics is chemistry. Some chemistry is statistics.

Conclusions: I) Some maths is chemistry. II) All statistics is science is a possibility.

- (A) Only conclusion I is followed
(B) Both conclusions I and II followed
(C) Neither conclusion I and II is followed
(D) Only conclusion II follows
-

46. Statements: No gold is bronze. Only a few bronzes are silver. All silvers are copper. Some coppers are diamond.

Conclusions: I) All golds are diamond. II) Some diamonds are not gold.

- (A) Only conclusion I is followed
(B) Both conclusions I and II followed
(C) Neither conclusion I and II is followed
(D) Either conclusion I or II follows
-

47. Statements: All boats are stream. No stream is a cruise. Some cruises are captain. Some captains are not pilots.

Conclusions: I) All pilots can be cruise. II) No boat is captain.

- (A) Only conclusion I is followed
(B) Both conclusions I and II followed
(C) Neither conclusion I and II is followed
(D) Only conclusion II follows
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Directions for Q48-Q50

In a certain code language, statements are coded as follows:

'judo golf cycling rugby fencing' Means '32 48 96 82 95'

'soccer rugby pool hockey karate' Means '63 67 09 51 48'

'curling archery soccer fencing golf' Means '19 32 82 25 63'

'fencing pool soccer cricket judo' Means '95 51 63 28 32'

Decoding the language: By comparing the words and codes across the four statements, we can deduce the following:

- **fencing** (in 1, 3, 4) = **32** (in 1, 3, 4)
- **soccer** (in 2, 3, 4) = **63** (in 2, 3, 4)
- **judo** (in 1, 4) = **95** (in 1, 4)
- **golf** (in 1, 3) = **82** (in 1, 3)
- **rugby** (in 1, 2) = **48** (in 1, 2)
- **pool** (in 2, 4) = **51** (in 2, 4)
- From (1), **cycling** = 96

- From (4), **cricket** = 28
- From (2), 'hockey'/'karate' = '67'/'09'
- From (3), 'curling'/'archery' = '19'/'25'

48. Which of the following may be the code for "golf cricket" in the given code language?

- (A) 67 32
 - (B) 82 48
 - (C) 82 28
 - (D) 96 51
-

49. Which of the following is the code for "judo cycling rugby" in the given language?

- (A) 82 48 25
 - (B) 82 96 51
 - (C) 32 48 19
 - (D) 95 96 48
-

50. What does the code "09" stand for in the given language?

- (A) pool
 - (B) either E or C
 - (C) karate
 - (D) soccer
-

51. A man has a job which requires him to work eight straight days and rest on the 9th day. If he started work on a Monday, the 12th time he rests will be on what day of the week?

- (A) Sunday
 - (B) Wednesday
 - (C) Tuesday
 - (D) Friday
-

52. How many minutes before 12 noon is it when it is 27 minutes past 10:00 AM?

- (A) 30
 - (B) 93
 - (C) 49
 - (D) 94
-

53. A, B, C, D, E, F and G are the members of a family consisting of four adults and three children, two of whom F and G are girls. A and D are brothers, and A is a doctor. E is an engineer, married to one of the brothers and has two children. B is married to D, and G is their child. Who is C?

- (A) G's father
 - (B) F's father
 - (C) E's daughter
 - (D) A's son
-

54. Use the code: $P\#Q = P$ is the father of Q ; $P+Q = P$ is the mother of Q ; $P-Q = P$ is the brother of Q ; $P*Q = P$ is the sister of Q . If $A + B \# C - D$, then A is D's _____.

- (A) Sister
 - (B) Grandfather
 - (C) Grandmother
 - (D) Father
-

55. Which of the following shows that A is the aunt of E? (Use the same code: $\# =$ father, $+$ = mother, $-$ = brother, $*$ = sister.)

- (A) $A - B + C \# D * E$
 - (B) $A * B \# C * D - E$
 - (C) $A \# B * C + D - E$
 - (D) $A + B - C * D \# E$
-

Directions for Q56-Q57

During their school Silver Jubilee Reunion, four alumini were discussing their starting annual salaries back in 1981. The salaries in question were rupees 40,50,60 and 70 thousand per year. Of course, the present MD of our private company earned the most. Arvind earned more than biswajit, and the doctor earned more than druv the engineer. Chinamay could not remember what he started on Biswajit, the lawyer did not start on 50,000 nor did dhruv. Solution to

the Puzzle:

Let's deduce the profession and salary of each of the four alumni (Arvind, Biswajit, Chinmay, Dhruv).

- **Salaries:** 40k, 50k, 60k, 70k.
- **Professions:** MD, Doctor, Engineer, Lawyer.
- **Clue 1:** The MD earned the most. $\rightarrow$ MD's salary is 70,000.

- **Clue 2:** The doctor earned more than Dhruv the engineer. → This tells us **Dhruv is the Engineer**. And Doctor's Salary $\geq$ Engineer's Salary.
- **Clue 3:** The lawyer did not start on 50,000 nor did Dhruv. → Lawyer's Salary $\neq$ 50,000 and Dhruv's Salary $\neq$ 50,000.
- Since the Lawyer and the Engineer (Dhruv) did not earn 50k, and the MD earned 70k, the remaining person, the **Doctor**, must have earned **50,000**.
- Now we know Doctor's salary is 50k. From Clue 2 (Doctor $\geq$ Dhruv the Engineer), we get 50,000 $\geq$ Dhruv's Salary. The only salary less than 50k is 40k. So, **Dhruv (Engineer)'s salary is 40,000**.
- The salaries accounted for are 70k (MD), 50k (Doctor), and 40k (Engineer). The only remaining salary is 60k, which must be for the **Lawyer**. So, **Lawyer's salary is 60,000**.
- **Clue 4:** Arvind earned more than Biswajit. → Arvind's Salary $\geq$ Biswajit's Salary.
- We have the following salary distribution: MD=70k, Lawyer=60k, Doctor=50k, Engineer=40k (Dhruv).
- The remaining people are Arvind, Biswajit, and Chinmay. They must be the MD, Lawyer, and Doctor.
- Based on Arvind's Salary $\geq$ Biswajit's Salary, the only possibility is that Arvind got 70k and Biswajit got 60k or 50k.
- If Arvind = 70k (MD), then Biswajit could be the Lawyer (60k) or the Doctor (50k).
- If Arvind = 60k (Lawyer), then Biswajit must be the Doctor (50k).
- The poorly OCR'd text seems to hint that Biswajit is the lawyer. If we assume "Biswajit, the lawyer", then Biswajit's salary is 60k. Then Arvind's salary must be $\geq$ 60k, which means Arvind's salary is 70k (MD).
- This leaves Chinmay to be the Doctor with a salary of 50k.

Final Arrangement:

- **Arvind:** MD, 70,000
- **Biswajit:** Lawyer, 60,000
- **Chinmay:** Doctor, 50,000
- **Dhruv:** Engineer, 40,000

56. What was the lawyer's starting salary?

- (A) 40,000
- (B) 50,000
- (C) 60,000
- (D) 70,000

57. Who received the highest starting salary?

- (A) Arvind
 - (B) Biswajit
 - (C) Chinmay
 - (D) Dhruv
-

58. Find the missing number in the series: 24, 28, 30, 34, ...

- (A) 40
 - (B) 38
 - (C) 35
 - (D) 36
-

59. For the assertion A and the reason R given below, choose the correct alternative:

A — Copper is used to make electric wires.

R — Copper has very low electric resistance.

- (A) A is true, R is false.
 - (B) A is false, R is true.
 - (C) Both A and R are true, and R is not the correct explanation of A.
 - (D) Both A and R are true, and R is the correct explanation of A.
-

**60. Pointing at Ankit, Shruti said: "his father is the only son of my grandfather."
How is Ankit related to Shruti?**

- (A) Sister
 - (B) Daughter
 - (C) Mother
 - (D) Brother
-