

# SNAP 2025 Test 1 Slot 1 Question Paper

Time Allowed :60 Minutes	Maximum Marks :60	Total Questions :60
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## General Instructions

Read the following instructions very carefully and strictly follow them:

1. SNAP Test will be conducted in objective mode in 30 cities across the country and the time allotted for it will be 60 minutes.
2. The exam is divided in four sections
3. A total of 60 questions spread across three sections will be asked.
4. There is a **negative marking** of  $\frac{1}{4}$  **mark** for each incorrect answer.
5. The test follows an MCQ format wherein each question lists 4 options out of which a student has to select the right answer.

1. The sum of first  $n$  terms of an A.P. is  $S_n = n^2 + 4n$ . Find the 10th term.

- (A) 32
- (B) 23
- (C) 46
- (D) 18

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2. If  $\tan\theta + \cot\theta = 4$ , find  $\tan^2\theta + \cot^2\theta$ .

- (A) 14
- (B) 16
- (C) 20
- (D) 8

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3. The political opinion piece in the newspaper was a \_\_\_\_\_ critique of the government's foreign policy, aiming to \_\_\_\_\_ a strong public reaction.

- (A) forthright – elicit
- (B) illicit - elicit
- (C) illicit - illicit
- (D) explicit - elicit

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4. The policy was considered a resounding success by almost all economic analysts. Identify the part of speech of 'resounding'.

- (A) Noun
  - (B) Gerund
  - (C) Adverb
  - (D) Adjective
- 

**5. During the annual board meeting in Kolkata, a major \_\_\_\_\_ was the company's lackluster performance in overseas markets.**

- (A) talking point
  - (B) point of talk
  - (C) talk point
  - (D) breaking point
- 

**6. The startup pitch was a disorganized mess of disconnected ideas. The presentation was a train wreck from the very first slide. Identify the figure of speech.**

- (A) Metaphor
  - (B) Hyperbole
  - (C) Simile
  - (D) Personification
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**7. The CEO's perspicacious analysis of market trends allowed the company to pivot its strategy before competitors, securing an advantage. Identify the Synonym.**

- (A) superficial
  - (B) ambiguous
  - (C) astute
  - (D) obstinate
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**8. What is the % growth in the total production from 2018 to 2021?**

- (A) 40
  - (B) 53
  - (C) 47
  - (D) 60
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9. The sum of first  $n$  terms of an A.P. is  $S_n = n^2 + 4n$ . Find the  $10^{th}$  term.

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- 

10. A committee of 3 is to be formed from 5 men and 4 women. It must contain exactly 2 men and 1 woman. How many ways can it be done?

- (A) 30
  - (B) 50
  - (C) 20
  - (D) 40
- 

11. Find a number that leaves remainder 3 when divided by 7, and 2 when divided by 5.

- (A) 22
  - (B) 38
  - (C) 17
  - (D) 24
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12. If  $\log_{10}(5) = a$  and  $\log_{10}(3) = b$ , express  $\log_{10}(75)$  in terms of  $a$  &  $b$ .

- (A)  $b-a$
  - (B)  $2a+b$
  - (C)  $a+2b$
  - (D)  $a-b$
- 

13. Find  $\log_5(125) + \log_2(1/16)$

- (A) 0
- (B) 1
- (C) 2
- (D) -1

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14. Find x-intercepts of  $y = x^2 - 4x + 3$ .

- (A) (0,1) & (0,3)
- (B) (1,0) & (3,0)
- (C) (1,0) & (2,0)
- (D) (0,2) & (0,3)

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15. In an MBA entrance exam, 55% failed in QA, & 45% failed in VA, and 25% pass in both QA & VA. Find the % of students who failed in both the subjects.

- (A) 15%
- (B) 20%
- (C) 25%
- (D) 30%

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16. A shopkeeper marks up the price by 25% and then gives a discount of 20%. If Cost price is Rs. 800, find the Selling Price.

- (A) 780
- (B) 820
- (C) 840
- (D) 800

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17. In a Geometric Progression,  $3^{rd}$  term is 12, and  $6^{th}$  term is 96. Find sum of first 5 terms.

- (A) 93
- (B) 186
- (C) 248
- (D) 124

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18. A certain sum of money, invested at certain rate of Compound Interest, compounded annually, Amounts to Rs.8820 in 2 yrs and Rs. 9261 in 3 yrs. Find the Principal.

- (A) 8200
  - (B) 7800
  - (C) 7500
  - (D) 8000
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**19. Priya is organizing seating arrangements for a panel discussion in Mumbai. She has 6 panelists: 2 men & 4 women. They need to be seated in a row such that no two men sit together. In how many ways can this seating arrangement be made?**

- (A) 576
  - (B) 480
  - (C) 288
  - (D) 144
- 

**20. Find the next number in the series: 5, 6, 14, 45, 184, ?**

- (A) 845
  - (B) 755
  - (C) 965
  - (D) 925
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**21. Sculptor : Chisel :: Author : ?**

- (A) Pen
  - (B) Reader
  - (C) Paper
  - (D) Book
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**22. Find the angle between clock hands at 3:40 PM.**

- (A)  $50^\circ$
  - (B)  $130^\circ$
  - (C)  $120^\circ$
  - (D)  $140^\circ$
-

**23. I. Govt increased import duty on electronics.  
II. Prices of locally made electronics remain unchanged.**

- (A) Statement I is the cause, and Statement II is its effect.
  - (B) Statement II is the cause, and Statement I is its effect.
  - (C) Both I and II are Ind. causes
  - (D) Both I and II are effects of independent causes
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**24. ARMORY : WEAPONS :: ?**

- (A) Hospital : Patients
  - (B) Bank : Loans
  - (C) Aviary : Fishes
  - (D) Warehouse : Merchandise
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**25. 8 people A - H are sitting in line facing north.**

**I. D sits immediate to the right of A.**

**II. E sits at the left end.**

**III. C sits 3<sup>rd</sup> to the left of D.**

**IV. B sits immediate right of E.**

**V. H, B & G sits together with H in middle.**

**VI. F sits immediately left of A.**

**Which of the following is the correct arrangement?**

- (A) EBHGCEAD
  - (B) EAHDB GFC
  - (C) ACGDHBFC
  - (D) EBHGCFAD
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**26. In a certain coding language:**

**'Study for exam' → Pa Co Ta**

**'Exam is tough' → ga ni sa**

**'study tough subject' → lo sa ma**

**Find the code for 'tough'.**

- (A) Lo
- (B) Sa
- (C) Ma
- (D) None of these

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27. Find the next term in the series: A1C, D4F, G9I, J16L, ?

- (A) L26P
- (B) M25P
- (C) N25O
- (D) M25O

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28. A person's birthday on 21<sup>st</sup> July was on Wednesday. On what day will the Christmas fall in the same year?

- (A) Monday
- (B) Tuesday
- (C) Wednesday
- (D) Saturday

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29. Statements:

Only a few rivers are oceans.

All oceans are seas.

All seas are oceans.

Conclusion:

I. Some rivers are seas is a possibility.

II. All rivers are seas is a possibility.

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30. 4 Pilots L, M, N, O flew in F-16, F-22, F-35, SU-57. They finished on rank 1 to 4.

Following is known:

- 1) O finished 2 ranks below L.
- 2) F-35 pilot finished immediately before M.
- 3) N finished 2<sup>nd</sup> flying F-16.
- 4) L did not fly SU-57.

Find who flew F-22?

- (A) M
- (B) L
- (C) N
- (D) O

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31. Find next number in: 7, 8, 12, 21, 37, ?

- (A) 66
- (B) 59
- (C) 62
- (D) 64

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32. A is father of B. C is daughter of B. D is brother of B. E is son of C. How is A related to E?

- (A) Brother
- (B) Grandfather
- (C) Uncle
- (D) Great Grandfather

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33. Statements:

All pens are pencils.

No pencil is marker.

Conclusions:

- (1) Some pens are markers.
- (2) Some pens are pencils.

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34. If  $\tan\theta + \cot\theta = 4$ , find  $\tan^2\theta + \cot^2\theta$ .

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35. What is the Reflex angle between two hands of a clock at 10:25?

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36. The sides of a triangle are 13, 14, 15. Find the area.

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37.  $\log_2(x) + \log_2(x-2) = 3$



- (a) 2
  - (b) 3
  - (c) 4
  - (d) 5
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38. Difference between SI and CI for 2 year @ 10% is Rs. 150. Find the principal.

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39. A can do a work in 12 days and B in 18 days. if they start work together, and after 2 days B leaves then how many days will it take for the work to get completed?

- (A) 7
  - (B) 8.66
  - (C) 9
  - (D) 10.66
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40. A Train, going at speed of 72 km/h, passes a station (160 meter long) in 18 second. In how much time the train can Cross a man standing on the station?

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41. A cylinder has base radius of 7 m and height of 1 m. How much water can it hold? (given:  $1000 \text{ lt} = 1 \text{ m}^3$ )

- (A) 2,20,000 lt.
  - (B) 2,15,000 lt.
  - (C) 1,54,000 lt.
  - (D) 1,68,000 lt.
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