



## Santosh Academia Talent Examination

(2025-26)

CLASS-VIII (STUDYING)

PAPER-1

SET CODE: [A]

Test ID: 707

Time: 1 Hour

Max. Marks: 120

### IMPORTANT INSTRUCTIONS:

#### GENERAL

1. This booklet is your Question Paper. Ensure that question paper belongs to the Class in which you are currently studying. If not, contact the invigilator for change of question paper.
2. The Test ID is printed on the left-hand top corner of this sheet. If not, contact the invigilator for change of question paper.
3. Use the Optical Mark Recognition (OMR) sheet provided separately for answering the questions. DO NOT FILL till you are told to do so.
4. The TEST PAPER NUMBER is printed on the left-hand top corner of the question paper and SET CODE is printed on the Right-hand top corner of the question paper. Ensure that you fill this in OMR as that on the question paper booklet.
5. Blank spaces are provided within this booklet for rough work. No additional rough sheet will be provided.
6. You are ALLOWED to take away the Question Paper at the end of the examination.

#### QUESTION PAPER FORMAT

7. This Paper contains 30 questions in total.

**Section-I:** Question Number 1 to 3 belongs to **Physics**.

**Section-II:** Question Number 4 to 6 belongs to **Chemistry**.

**Section-III:** Question Number 7 to 10 belongs to **Biology**.

**Section-IV:** Question Number 11 to 20 belongs to **Mathematics**.

**Section-V:** Question Number 21 to 30 belongs to **Mental Ability**.

#### MARKING SCHEME:

8. Each question carries 4 marks. For each correct response, the candidate will get 4 marks.
9. There is no negative marking for incorrect response or unmarked questions.



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SAMPLE PAPER



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### SECTION-I PHYSICS

- Ultrasound has frequency of vibration
  - Between 20 and 20,000 Hz
  - Below 20 Hz
  - Above 20,000 Hz
  - Between 500 and 10,000 Hz
- Which of the following statements is incorrect?
  - Friction acts on a ball rolling along the ground
  - Friction acts on a boat moving on water
  - Friction acts on a bicycle moving on a smooth road
  - Friction does not act on a ball moving through air
- During dry weather, while combing hair, sometimes we experience hair flying apart. The force responsible for this is
  - Force of gravity
  - Electrostatic force
  - Force of friction
  - Magnetic force

### SECTION-II CHEMISTRY

- Heating of coal in the absence of air is called
  - Destructive distillation
  - Carbonisation
  - Both (a) and (b)
  - None of these
- Maximum carbon containing coal is
  - Peat
  - Lignite
  - Bituminous
  - Anthracite
- Which one of the following is a non-combustible substance?
  - Coal
  - Iron
  - straw
  - wood

### SECTION-III BIOLOGY

- Nowadays seed is sown in the field using
  - Seed Tractor
  - Seed drill
  - Seed Tiller
  - Seed Plough
- Some medicines obtained from microorganisms are applied to kill or stop the growth of disease causing microorganisms. Such medicines are called
  - Antibodies
  - Antibiotics
  - Antiseptics
  - All of the above
- Endemic species are
  - Those which are facing the dangers of extinction
  - Exclusively found in a particular area only
  - Found every where
  - None of these
- In humans, the development of the fertilised egg takes place in the
  - Ovary
  - Testis
  - Oviduct
  - Uterus

### SECTION-IV MATHEMATICS

11. What is the number in the units place of  $(763)^{84}$ 
  - (a) 1
  - (b) 3
  - (c) 7
  - (d) 9
12. The HCF of all the natural numbers from 200 to 478 is
  - (a) 2
  - (b) 1
  - (c) 478
  - (d) 3
13.  $\sqrt[3]{\frac{-a^6 \times b^3 \times c^{21}}{c^9 \times a^{12}}}$  is equal to
  - (a)  $\frac{-bc^3}{a^2}$
  - (b)  $\frac{bc^4}{a^2}$
  - (c)  $\frac{-ab^4}{c^2}$
  - (d)  $\frac{-bc^4}{a^2}$
14. If  $3(x - 2)^2 = 507$ , then  $x$  can be
  - (a) 13
  - (b) 12
  - (c) 15
  - (d) 14
15.  $64^{\frac{2}{3}} \times 64^{\frac{1}{3}} \times 64^{-\frac{5}{3}}$  is equal to
  - (a)  $\frac{1}{64}$
  - (b)  $\frac{1}{16}$
  - (c) 32
  - (d)  $\frac{1}{32}$
16.  $\sqrt[6]{0.004096}$  is equal to
  - (a) 0.2
  - (b) 0.4
  - (c) 0.6
  - (d) 0.8
17. If  $2^x = 3^y = 6^z$ , then  $\frac{1}{x} + \frac{1}{y} + \frac{1}{z}$  is equal to
  - (a)  $\frac{2}{x}$
  - (b)  $\frac{2}{y}$
  - (c)  $\frac{2}{z}$
  - (d) 1
18. The expansion of  $(x^2 + 4)(x^2 - 4)(x^4 + 16)$  is
  - (a)  $x^8 - 128$
  - (b)  $x^4 - 16^2$
  - (c)  $x^6 - 256$
  - (d)  $x^8 - 256$
19. A sum of ₹ 4680 was divided among Parthu, Kunti, and Arjun in the ratio of  $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ . Find the share of Parthu (in ₹).
  - (a) 1440
  - (b) 1080
  - (c) 2160
  - (d) 720
20. A number, when decreased by 20% becomes 136. What is the number
  - (a) 160
  - (b) 150
  - (c) 170
  - (d) 140

### SECTION-V MENTAL ABILITY

21. **Direction:** Study the following information carefully and answer the given question.  
If FABULOUS is coded as 21125515458 and AMUSING is coded as 1145831320, how will TIRESOME be coded?
  - (a) 1789222144
  - (b) 739284142
  - (c) 723914482
  - (d) 7189224142

22. **Direction:** Study the given pattern carefully and select the number that can replace the question mark (?) in it.

23:19::56:?

- (a) 81 (b) 91 (c) 96 (d) 65

23. **Direction:** In the following question, there are four numbers, three of which are similar and one of which is different. Pick the one that doesn't fit.

- (a) 127 (b) 255 (c) 511 (d) 729

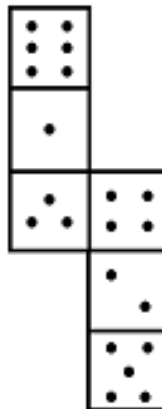
24. In the following question two statements are given and these are followed by four conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusion and then decide which of the given conclusion logically follows the statements:

**Statements:** No door is dog. All the dogs are cats.

**Conclusions:**

- (1) No door is cat.  
(2) No cat is door.  
(3) Some cats are dogs.  
(4) All the cats are dogs.  
(a) Only (2) and (4) (b) Only (1) and (3)  
(c) Only (3) and (4) (d) Only (3)

25. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



- (a) 2 (b) 4 (c) 5 (d) 6

26. Choose the alternative which is closely resembles the mirror image of the given combination.

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1. APTOTNIIARAL 2. APTOTNIIARAT  
3. APTOTNIIARAT 4. APTOTNIIARAT

- (a) 1 (b) 2 (c) 3 (d) 4

27. **Direction:** Study the following information carefully and answer the given question.

A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 4 km. And then he goes back 10 km straight. Now in which direction is he from the starting place ?

- (a) South-East (b) North-West (c) South (d) West

28. **Direction:** Study the following information carefully and answer the given question.

In a family, there are six members A, B, C, D, E and F. A and B are a married couple, A being the male member. D is the only son of C, who is the brother of A. E is the sister of D. B is the daughter-in-law of F, whose husband has died. How is E related to C?

- (a) Sister (b) Daughter (c) Cousin (d) Mother

29. **Direction:** Study the following information carefully and answer the given question

Five friends Sajit, Rohan, Bikshu, Tomar and Madhu are sitting on a bench in a playground and facing north (but not necessarily in the same order of names). Sajit sits on the immediate left of Rohan and on the immediate right of Bikshu. Madhu is somewhere to the right of Rohan. Tomar is exactly between Rohan and Madhu. Who is sitting at the extreme right end?

- (a) Sajit (b) Madhu (c) Rohan (d) Tomar

30. Find out the two signs to be interchanged for making following equation correct

$$5 + 3 \times 8 - 12/4 = 3$$

- (a) + and - (b) - and / (c) + and  $\times$  (d) + and /

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## ROUGH WORK

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