

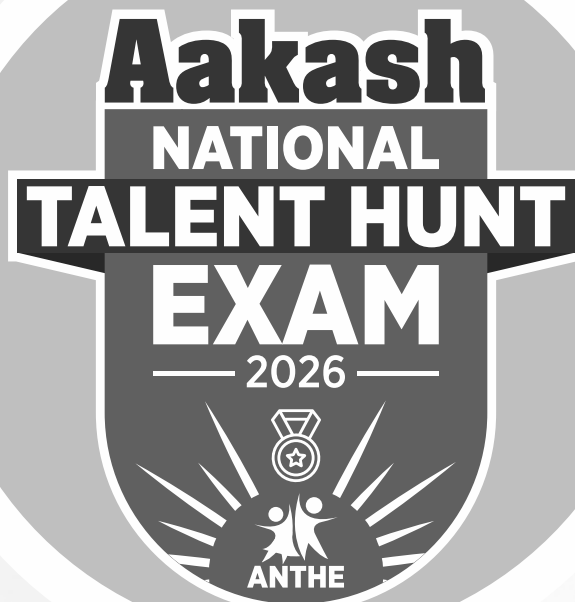
# Sample Paper

FOUNDATIONS



## Aakash

Medical | IIT-JEE | Foundations



**(Class VII Studying Moving to Class VIII)**

## Science, Mathematics & Mental Ability

### INSTRUCTIONS FOR CANDIDATE

1. Duration of Test is 1 hr.
2. The Test Booklet consists of **40** questions. The maximum marks are **90**. There is **no negative marking** for wrong answer.
3. Pattern of the questions are as under:
  - (i) The question paper consists of three parts *i.e.*, **Science, Mathematics and Mental Ability**. Each part has **two sections**.
  - (ii) **Section-I**: This section contains **35** multiple choice questions, which have **only one** correct answer. Each question carries **+2 marks** for correct answer.
  - (iii) **Section-II**: This section contains **5** multiple choice questions, in which **one or more than one** choice(s) is(are) correct. Each question carries **+4 marks** for correct answer.

# Aakash National Talent Hunt Exam 2026

## Sample Paper

(Class VII Studying Moving to Class VIII)

(The questions given in sample paper are indicative of the level and pattern of questions that will be asked in ANTHE-2026)

Time : 1 Hour

MM : 90

### SCIENCE

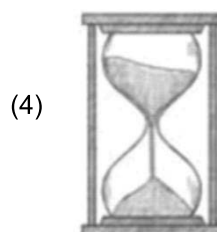
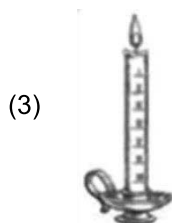
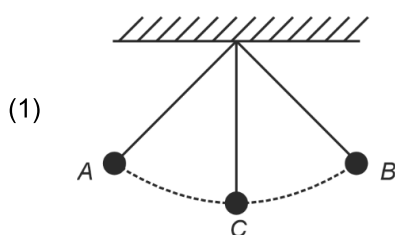
#### SECTION-I : SINGLE CORRECT ANSWER TYPE

This section contains 18 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** choice is correct.

1. By which process water vapour turn into clouds?  
 (1) Evaporation            (2) Transpiration            (3) Precipitation            (4) Condensation
2. Wells are mainly fed by  
 (1) Pond water            (2) Lake water            (3) Groundwater            (4) Ocean water
3. In the arrangement shown below, the bulbs will not glow if the ends A and B are connected with



- (1) A steel spoon            (2) A metal coin            (3) A plastic spoon            (4) A copper wire
4. **Statement-I** : The time period of a simple pendulum is independent of the mass of the bob.  
**Statement-II** : The time period of a simple pendulum is independent of the length of the string attached to the bob of the pendulum.  
 (1) Only statement-I is correct            (2) Only statement-II is correct  
 (3) Both statement-I and statement-II are correct            (4) Both statement-I and statement-II are incorrect
5. Which of the following cannot be used to measure the periods of time in cloudy weather conditions?



6. An incandescent light bulb is shown in the figure below, \_\_\_\_\_ are the terminals of the bulb.



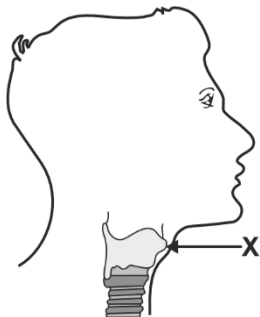
- (1) 1 and 3                      (2) 1 and 4                      (3) 3 and 4                      (4) 5 and 3
7. Which one of the following is used to prepare lime water?  
 (1) Citric acid                      (2) Calcium oxide (chuna)                      (3) Sodium chloride                      (4) Magnesium hydroxide
8. Which of the following colours is shown by red rose extract in basic solutions?  
 (1) Red                      (2) Green                      (3) Yellow                      (4) Blue
9. You are provided with three substances vinegar, baking soda and sugar. Now, test the solutions of these substances using indicators and choose the option which is correctly matched to your observation.  
 (1) Turmeric paper shows red colour on addition of vinegar  
 (2) Red litmus solution becomes blue on addition of baking soda solution  
 (3) Red hibiscus extract becomes dark pink on addition of sugar solution  
 (4) Red litmus solution becomes blue on addition of vinegar
10. The property by which a substance can be drawn into wires is called  
 (1) Malleability                      (2) Sonority                      (3) Ductility                      (4) Flexibility
11. The handle of a screwdriver is usually made of which material?  
 (1) Aluminium                      (2) Iron                      (3) Plastic                      (4) Copper
12. An element on burning in air (oxygen) forms a basic oxide. On dissolving the oxide in water it forms a base. The element, its oxide and base formed respectively are  
 (1) Magnesium, magnesium oxide and magnesium hydroxide  
 (2) Sulfur, sulphur dioxide and sodium hydroxide  
 (3) Sodium, sodium oxide and potassium hydroxide  
 (4) Carbon, carbon dioxide and ammonium hydroxide
13. Celiac disease is a condition in which body reacts to  
 (1) Glucose                      (2) Fat                      (3) Gluten                      (4) Starch
14. Select the **incorrect** statement w.r.t. cows.  
 (1) They are called ruminants  
 (2) They breathe through lungs  
 (3) Their digestive system possesses small intestine and oesophagus  
 (4) They have a chamber called gizzard
15. **Statement-I** : Hormones are produced in different parts of our body.  
**Statement-II** : They are released at an appropriate time in response to signals from the brain.  
 Consider the above given statements and select the correct option.  
 (1) Both the statements are correct                      (2) Both the statements are incorrect  
 (3) Only statement-I is correct                      (4) Only statement-II is correct

16. • It is a dome-shaped muscle found below the lungs.  
• It moves downwards during inhalation.

Identify the part of human respiratory system on the basis of above given information and select the correct option.

- (1) Diaphragm (2) Alveolus (3) Windpipe (4) Rib cage

17.



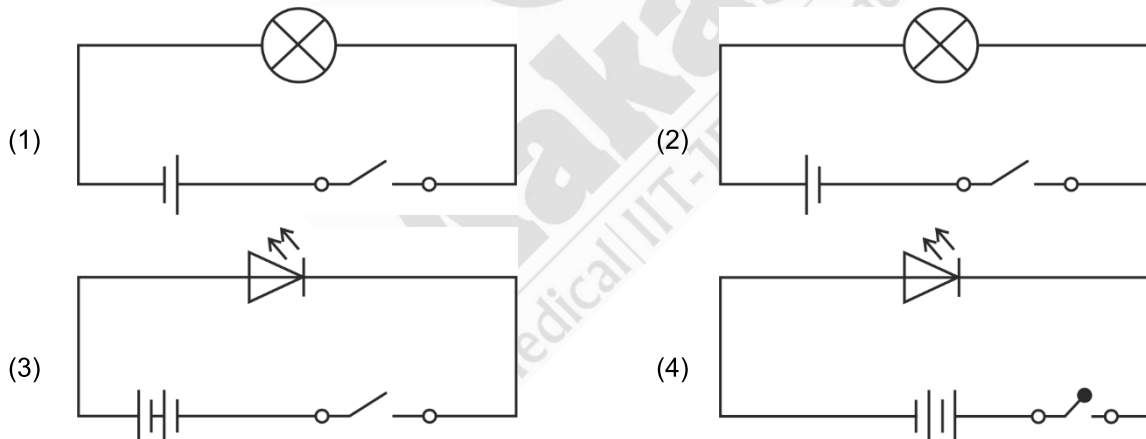
In the above given figure, 'X' is

- (1) Rectum (2) Anus (3) Adam's apple (4) Gill
18. All of the following substances are harmful to our body, **except**
- (1) Alcohol (2) Gutka (3) Tobacco (4) Fig

### SECTION-II : ONE OR MORE THAN ONE CORRECT ANSWER TYPE

This section contains 3 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **ONE OR MORE THAN ONE** choice(s) is(are) correct.

19. In which of the following cases the lamp will glow when the switch is closed?

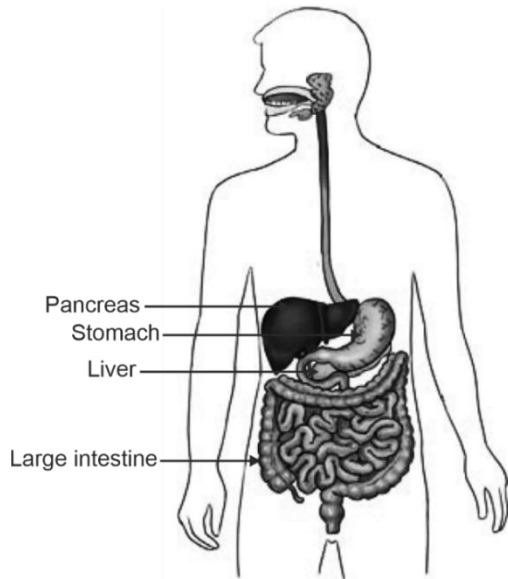


20. Consider the following statements.
- Mixture of two or more metals or a metal and a non-metal is termed as alloy
  - Nitrogen is used in the manufacturing of fertilisers
  - Phosphorus is stored in water
  - Sodium is stored in water
  - A solution of iodine is applied on wounds as an antiseptic

Now, choose the correct option(s).

- (1) Both statements (i) and (ii) are correct while statement (iv) is incorrect  
(2) Statements (ii), (iii) and (v) are correct while statement (iv) is incorrect  
(3) Statements (iii), (iv) and (v) are correct while statements (i) and (ii) are incorrect  
(4) Statements (i), (iv) and (v) are correct while statements (ii) and (iii) are incorrect

21.



Which of the following part(s) is/are wrongly labelled in the above given figure of human digestive system?

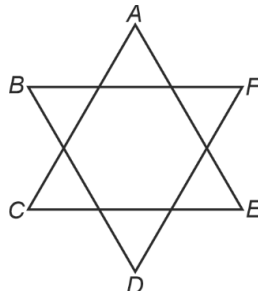
- (1) Liver                      (2) Pancreas                      (3) Stomach                      (4) Large intestine

**MATHEMATICS**

**SECTION-I : SINGLE CORRECT ANSWER TYPE**

This section contains 10 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** choice is correct.

22. The area of a rectangle with sides  $4\frac{3}{4}$  m and  $3\frac{4}{7}$  m is  
(1)  $\frac{477}{28}$  sq. m                      (2)  $\frac{475}{28}$  sq. m                      (3)  $\frac{575}{28}$  sq. m                      (4)  $\frac{577}{28}$  sq. m
23. Rohit can run  $\frac{19}{5}$  km in one hour. The distance ran by him in  $\frac{8}{3}$  hours will be  
(1)  $\frac{152}{15}$  km                      (2)  $\frac{153}{15}$  km                      (3)  $\frac{167}{15}$  km                      (4)  $\frac{169}{15}$  km
24. The length of sides of a triangle are integers. If two sides of this triangle are 16 cm and 12 cm then the maximum length of third side is  
(1) 28 cm                      (2) 30 cm                      (3) 27 cm                      (4) 31 cm
25. In the given figure,  $\angle A + \angle B + \angle C + \angle D + \angle E + \angle F = ?$



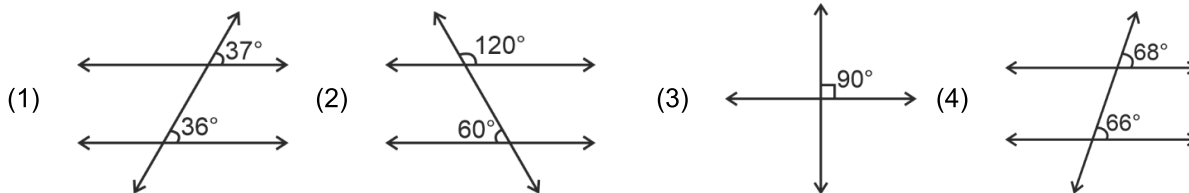
- (1)  $90^\circ$                       (2)  $180^\circ$                       (3)  $360^\circ$                       (4)  $720^\circ$

26. The next two numbers in the following sequence are

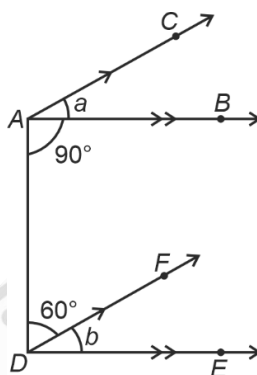
1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, \_\_\_\_\_, \_\_\_\_\_

- (1) 233, 715                      (2) 233, 377                      (3) 233, 378                      (4) 234, 377

27. Which figure among the following shows parallel lines?



28. In the given figure, the values of  $a$  and  $b$  respectively are (Given,  $AC \parallel DF$  and  $AB \parallel DE$ )



- (1)  $20^\circ, 30^\circ$                       (2)  $30^\circ, 40^\circ$                       (3)  $20^\circ, 20^\circ$                       (4)  $30^\circ, 30^\circ$

29. The simplest form of the expression  $(7x + 8y + 56z) - (-37x + 47y - 50z)$  is

- (1)  $44x - 39y + 106z$                       (2)  $44x - 116y + 39z$   
 (3)  $39x - 44y + 116z$                       (4)  $39x - 44y + 37z$

30. 1 Arab is 1 followed by

- (1) 5 zeroes                      (2) 6 zeroes  
 (3) 8 zeroes                      (4) 9 zeroes

31. Santosh buys a big pack of candies containing 500 candies. He made small packs of candies containing 2 candies each. His mother also gave him 6 additional small pack of candies of similar kind. The expression used to determine the total number of small packs of candies Santosh has now is

- (1)  $\frac{500}{2} + 6$                       (2)  $500 \times 2 + 6$   
 (3)  $\frac{500}{6} + 2$                       (4)  $\frac{2}{6} + 500$

**SECTION-II : ONE OR MORE THAN ONE CORRECT ANSWER TYPE**

This section contains 1 multiple choice question, which has 4 choices (1), (2), (3) and (4) out of which **ONE OR MORE THAN ONE** choice(s) is(are) correct.

32. Which of the following statement(s) is/are correct?

- (1)  $\frac{3}{10} < \frac{31}{10} < 3\frac{3}{10} < 31\frac{1}{10}$                       (2)  $23\frac{1}{10} - 21\frac{6}{10} = \frac{71}{100} = \frac{5}{10} \frac{29}{100}$   
 (3)  $53 \text{ mm} = 0.53 \text{ cm}$                       (4)  $4.3414 < 4.3415 < 4.3425 < 4.3525$

**MENTAL ABILITY**

**SECTION-I : SINGLE CORRECT ANSWER TYPE**

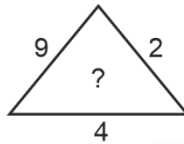
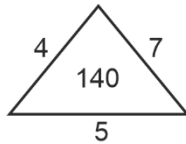
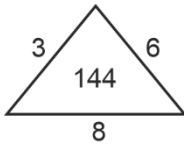
This section contains 7 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** choice is correct.

33. Find the next term in the following series.

3, 11, 27, 59, 123, ?

- (1) 250                      (2) 251                      (3) 252                      (4) 460

34. Find the missing term.



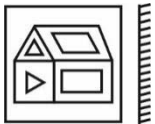
- (1) 78                      (2) 146                      (3) 120                      (4) 72

35. The water image of the following pattern is

**MASTER**

- (1) **WUSLEB**    (2) **WASTE B**    (3) **WURLEB**    (4) **WURTEB**

36. Find the mirror image of the given figure.



- (1)     (2)     (3)     (4) 

37. In which of the letter-series, number of letters skipped in between adjacent letters in the series is two?

- (1) M, P, S, V, Y, B, E    (2) Z, C, G, K, M, P, R    (3) S, V, Z, C, G, J, N    (4) Q, S, V, Y, Z, C, F

38. A player holds 13 cards of four suits of which seven are black and six are red. There are twice as many diamonds as spades and twice as many hearts as diamonds. The number of clubs he hold is

- (1) 4                      (2) 5                      (3) 6                      (4) 7

39. One morning after sunrise, Gopi was standing facing a pole. The shadow of the pole fell exactly to his right. In which direction was he facing?

- (1) East                      (2) West                      (3) South                      (4) Data inadequate

**SECTION-II : ONE OR MORE THAN ONE CORRECT ANSWER TYPE**

This section contains 1 multiple choice question, which has 4 choices (1), (2), (3) and (4) out of which **ONE OR MORE THAN ONE** choice(s) is(are) correct.

40. If  $234 * 5 = 45$ ,  $456 * 6 = 90$  and  $682 * 5 = 80$ , then which of the following option(s) follow(s) the same operation?

- (1)  $555 * 5 = 75$                       (2)  $678 * 2 = 41$                       (3)  $442 * 8 = 79$                       (4)  $235 * 7 = 70$



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Delivering Outstanding Results



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## OUR TOP PERFORMERS IN NEET (UG) 2025



## OUR TOP PERFORMERS IN JEE (Advanced) 2025



## Olympiads Results

**777** Classroom Students  
Aakashians Qualified

in IOQM  
2025

**134** Classroom Students  
Aakashians Qualified

in RMO  
2025-26

**378** Classroom Students  
Aakashians Qualified

in NSEs  
2025-26

**26** Classroom Students  
Aakashians Qualified

for OCSCs/IMOTC  
/APMO 2025-26

**2072** Classroom Students  
Aakashians Qualified

in NSO & IMO (Level-1)  
2025-26