Sample Paper

FOUNDATIONS

Aakash
Medical | IIT-JEE | Foundations

Aakash
NATIONAL
TALENT HUNT EXAM
2025
KASHMIR
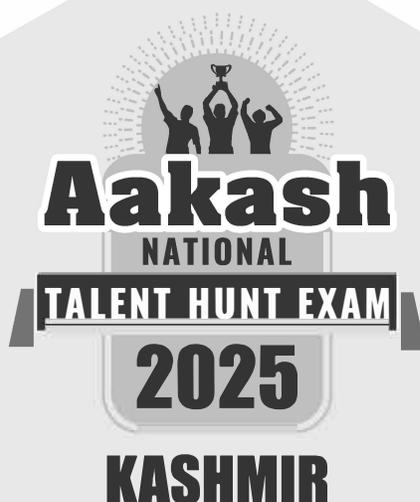
(Class VII Studying Moving to Class VIII)

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 (Kashmir)-2025
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 (Kashmir)-2025)

Time : 1 Hour   **SCIENCE**   **MM : 90**

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. A lamp is connected in a circuit with a cell and a switch. If the switch is in on position, then the lamp glow because

   (1) The current flows from the negative to positive terminal of the cell in the circuit

   (2) The current flows from the positive to negative terminal of the cell in the circuit

   (3) The cell stops supplying power

   (4) The circuit is broken

2. The metal utensils are used for cooking because

   (1) Metals are good insulator

   (2) Metals are good conductor of heat

   (3) Metals do not melt

   (4) Metals reflect heat

3. Which of the following correctly match their respective process in the water cycle?

   (A) Water vapour turning into clouds $\rightarrow$ Evaporation

   (B) Water falling as rain or snow $\rightarrow$ Precipitation

   (C) Water seepage into the ground $\rightarrow$ Condensation

   (D) Water vapour turning into liquid in clouds $\rightarrow$ Infiltration

   (1) (B) only

   (2) (A) and (C) only

   (3) (B) and (C) only

   (4) All (A), (B), (C) and (D)

4. A car moves with a uniform speed of 72 km/h for 10 minutes. The distance covered by the car is

(1) 1.2×10^4 m

(2) 7.2×10^3 m

(3) 2×10^3 m

(4) 2.4×10^3 m

5. Which of the following is not a unit of time?

(1) Day

(2) Hour

(3) Second

(4) Millimetre

6. Which of the following symbols represents a battery in an electric circuit?

(1)

(2)

(3)

(4)

7. Material 'X' can be beaten into sheets. 'X' and the property by virtue of which it can be beaten into sheets respectively are

(1) Mercury and ductility

(2) Aluminium and malleability

(3) Copper and ductility

(4) Sulphur and ductility

8. Study the following table carefully.

Element	Type	Appearance	Hardness
A	B	C	Soft
D	E	Dull	Soft

Which of the following can replace 'A', 'B', 'C', 'D' and 'E' respectively to complete the above table?

(1) Phosphorus, non-metal, dull, aluminium and metal

(2) Potassium, metal, dull, carbon and non-metal

(3) Sulphur, non-metal, shiny, phosphorus and non-metal

(4) Sodium, metal, shiny, sulphur and non-metal

9. Acid 'A' is found in curd. 'A' is identified as

(1) Oxalic acid

(2) Citric acid

(3) Lactic acid

(4) Formic acid

10. Which of the following metals is found in liquid state at room temperature?

    (1) Potassium   (2) Sodium

    (3) Copper   (4) Mercury

11. Radheshyam is a village farmer. On testing the soil sample of his field, he was advised to add lime in the soil. The nature of the soil before adding lime was

    (1) Basic

    (2) Acidic

    (3) Neutral

    (4) Salty

12. Aadyant performed an activity to detect four indicators 'A', 'B', 'C' and 'D' with the help of lemon juice. He took lemon juice in four different test tubes and added few drops of indicators one by one. Which of the following sets of conclusions is correct?

    (i) 'A' is red hibiscus indicator because on adding 'A', the contents of the test tube became magenta in colour.

    (ii) 'B' is turmeric paste because on adding 'B', the contents of the test tube became reddish brown in colour.

    (iii) 'D' is red litmus because on adding 'D', the contents of the test tube became blue in colour.

    (iv) 'C' is blue litmus solution because on adding 'C', the contents of the test tube became red in colour.

    (1) Only (i) and (ii)

    (2) Only (ii) and (iii)

    (3) Only (i) and (iv)

    (4) (ii), (iii) and (iv)

13. Our lungs are protected by the

    (1) Rib cage   (2) Food pipe

    (3) Gizzard   (4) Alveolus

14. In human females, menstruation generally ends by the age of

    (1) 10 – 20 years   (2) 20 – 25 years

    (3) 30 – 35 years   (4) 45 – 55 years

15. In our body, hormones are released at an appropriate time in response to signals from the

    (1) Diaphragm

    (2) Brain

    (3) Nostril

    (4) Oesophagus

16. Select the **incorrect** statement amongst the following.

    (1) During adolescence, the body prepares for infancy

    (2) Acne occurs due to an increase in oily secretions from the skin

    (3) Menstrual cycle is a sign of good reproductive health

    (4) Adolescence leads to emotional and behavioural changes

17. Large intestine is

    (a) About 1.5 metres in length.

    (b) Longer than the small intestine.

    Select the correct option.

    (1) Only (a) is true

    (2) Only (b) is true

    (3) Both (a) and (b) are false

    (4) Both (a) and (b) are true

18. Select the correct order for journey of food through the different parts of our alimentary canal.

    (1) Mouth cavity $\rightarrow$ Oesophagus $\rightarrow$ Stomach $\rightarrow$ Small intestine $\rightarrow$ Large intestine

    (2) Mouth cavity $\rightarrow$ Stomach $\rightarrow$ Large intestine $\rightarrow$ Oesophagus $\rightarrow$ Small intestine

    (3) Mouth cavity $\rightarrow$ Small intestine $\rightarrow$ Stomach $\rightarrow$ Large intestine $\rightarrow$ Oesophagus

    (4) Mouth cavity $\rightarrow$ Large intestine $\rightarrow$ Oesophagus $\rightarrow$ Small intestine $\rightarrow$ Stomach
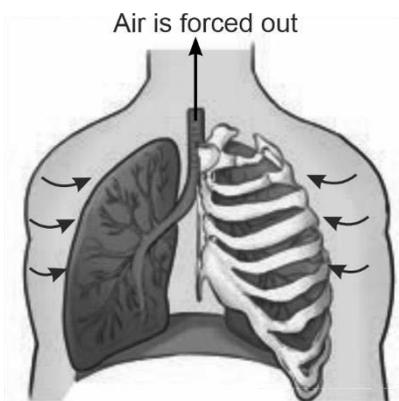
SECTION-II : ONE OR MORE THAN ONE CORRECT ANSWER TYPE

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. A girl goes on morning walk with her father. She starts from a point *P* and reaches to point *Q* in one-fourth of an hour and returns to her starting point in 30 minutes. If the separation between points *P* and *Q* is 3 km, then choose the correct statement(s) regarding her entire journey.

    (1) Her motion is uniform

    (2) Her motion is non-uniform

    (3) Her average speed is 8 km/h

    (4) Her average speed is $\dfrac{20}{9}$ m/s

20. Consider the following statements and choose the correct option(s) based on them.

    (i) Magnesium burns in air to produce 'X'.

    (ii) Iron forms a layer of 'Y' when exposed to moist air.

    (iii) 'X' dissolves in water to form 'Z'.

    (1) 'X' is magnesium oxide which is obtained as powdery ash by the complete burning of magnesium ribbon

    (2) 'Y' is rust and its formation can be prevented by galvanisation

    (3) 'X' is acidic whereas 'Y' is basic in nature

    (4) 'Z' turns red litmus blue

21.

Select the correct option(s) w.r.t. above depicted mechanism of breathing.

(1)   It reduces space in our chest cavity

(2)   It represents the process of exhalation

(3)   It increases space in our chest cavity

(4)   It causes upward movement of diaphragm

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.   Two lakhs thirty-four thousand five hundred and sixty-three can be written as

(1)   2, 34, 5063

(2)   20, 34, 563

(3)   2, 03, 456

(4)   2, 34, 563

23.   If ten crores of Indian system is equal to x in American system, then x equals

(1)   1 billion

(2)   100 million

(3)   1000 million

(4)   1 million

24.   Which of the following is smallest?

(1)   240 ÷ 3

(2)   6 × 12

(3)   85 – 6

(4)   55 + 23

25. The value of 15 – (10 – 8) is equal to

    (1) 15 + 10 + 8

    (2) 15 – 10 – 8

    (3) 15 – 10 + 8

    (4) 15 + 10 – 8

26. Which of the following is largest?

    (1) $13\dfrac{5}{10}$

    (2) $\dfrac{150}{10}$

   (3) $\dfrac{142}{10}$

    (4) $15\dfrac{2}{10}$

27. 5 units and 6 one-tenths and 3 one hundredths is written as

    (1) $\dfrac{563}{100}$

    (2) $\dfrac{5063}{100}$

    (3) $\dfrac{5603}{100}$

    (4) $\dfrac{563}{1000}$

28. A local train from Andheri to Borivali stops at 6 intermediate stations at equal distance along the way. The time taken in minutes to travel from one station to the next station is the same and is denoted by t. The train stops for 3 minutes at each of the 6 intermediate stations. If t = 8, then the time taken to travel from Andheri to Borivali is

    (1) 48 minutes

    (2) 74 minutes

    (3) 56 minutes

    (4) 66 minutes

29. The measure of $\angle BCD$ in the given figure is
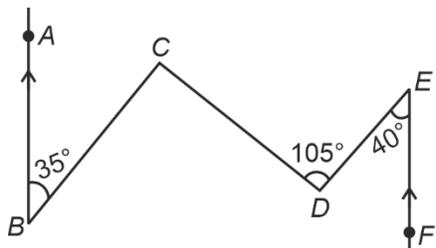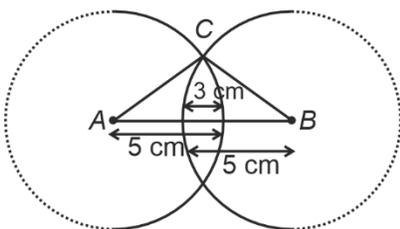

    (1) 95°

    (2) 90°

    (3) 105°

    (4) 100°

30. If
$$\begin{array}{r} K\ 3 \\ +\ K\ 3 \\ \hline D\ N\ N \end{array}$$
, then the sum of K, D and N in the given cryptarithm is

   (1) 12

   (2) 8

   (3) 15

   (4) 14

31. In the given figures (a) and (b), construction of an equilateral and isosceles triangle is shown respectively. If x and y are perimeters of the triangles given in figures (a) and (b) respectively, then the incorrect option is
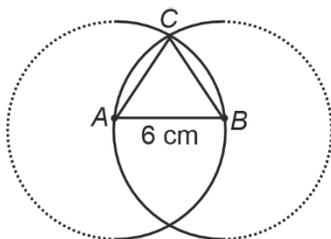

(a)   (b)

   (1) $x = 18$ cm

   (2) $y = 17$ cm

   (3) $x - y = 2$ cm

   (4) $x + y = 35$ cm

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. In the given figure, the fraction of shaded part of square is x, the fraction of unshaded part is y and z is the reciprocal of y. Which of the following option(s) is/are correct?
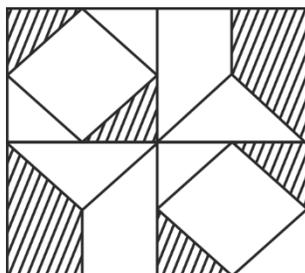
   (1) $y - x = \dfrac{6}{16}$

   (2) $x + z = \dfrac{311}{176}$

   (3) $z > y > x$

   (4) $y + z = \dfrac{377}{176}$

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. Prisha is standing on ground, such that she is facing towards south. She turns by 45° clockwise and then 225° anti-clockwise. Now, she is facing towards
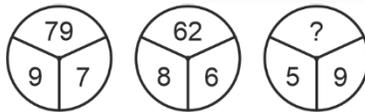
    (1) South

    (2) North

    (3) West

    (4) East

34. Find the next term of the given series.
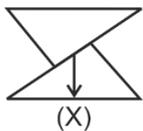
    27, 38, 51, 68, 87, ?

    (1) 107

    (2) 110

    (3) 105

    (4) 115

35. Find the missing term.

    (1) 82

    (2) 95

    (3) 59

    (4) 29

36. Choose the correct water image of the given figure (X).

    (1)   (2)

    (3)   (4)

37. Rohan has 5 pens, 3 pencils and 2 erasers. If the cost of a pen is ₹9, cost of a pencil is ₹4 and the cost of an eraser is ₹5. Find the total amount Rohan spent on stationery.

    (1)   ₹77

    (2)   ₹70

    (3)   ₹87

    (4)   ₹67

38. Choose the correct mirror image.

MNOS3695P

    (1)   ᴎᴎOƧ3ǝϱƧP

    (2)   Ꝑ5ǝϱƐƧOИM

    (3)   ꝐƧ69ƐƧOИM

    (4)   ꝐƧǝϱƐƧOИM

39. Find the wrong term.

PQH, RSK, TVN, VZQ, XFT

    (1)   VZQ

    (2)   XFT

    (3)   TVN

    (4)   RSK

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 8 @ 7 # 5 = 51, 6 @ 9 # 4 = 66 and 7 @ 8 # 8 = 64, then which option(s) has(have) same relation?

    (1)   6 @ 4 # 9 = 10

    (2)   4 @ 5 # 2 = 22

    (3)   9 @ 5 # 4 = 29

    (4)   2 @ 8 # 1 = 24

❏   ❏   ❏

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