

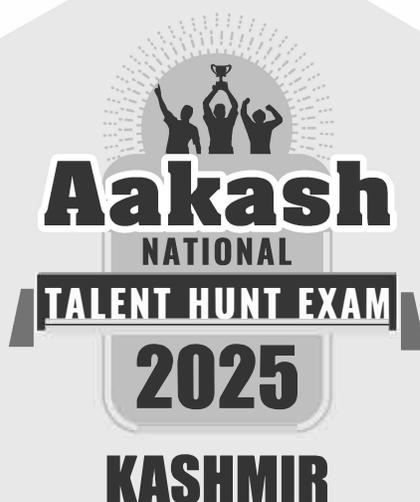
Sample Paper

FOUNDATIONS



Aakash

Medical | IIT-JEE | Foundations



(Class VI Studying Moving to Class VII)

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 **80**. 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 question carries **+2 marks** for correct answer.
 - (ii) All questions are of single correct answer type.

Aakash National Talent Hunt Exam (Kashmir)-2025

Sample Paper

(Class VI Studying Moving to Class VII)

(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

MM : 80

SCIENCE

This section contains 21 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** choice is correct.

1. Reeta, Sneha, Anita and Namrata conducted an experiment to examine the strength of a magnet. They used a strong bar magnet and moved it over a tray filled with 20 small iron pins. They recorded their observations in a table as shown. Which among the following has made the correct observation?



	No. of pins attracted at poles	No. of pins attracted at middle
Reeta	10	10
Sneha	12	8
Anita	8	12
Namrata	18	2

- (1) Reeta
(2) Sneha
(3) Anita
(4) Namrata
2. The normal temperature of a healthy human being is
- (1) 30°C
(2) 34°C
(3) 35°C
(4) 37°C

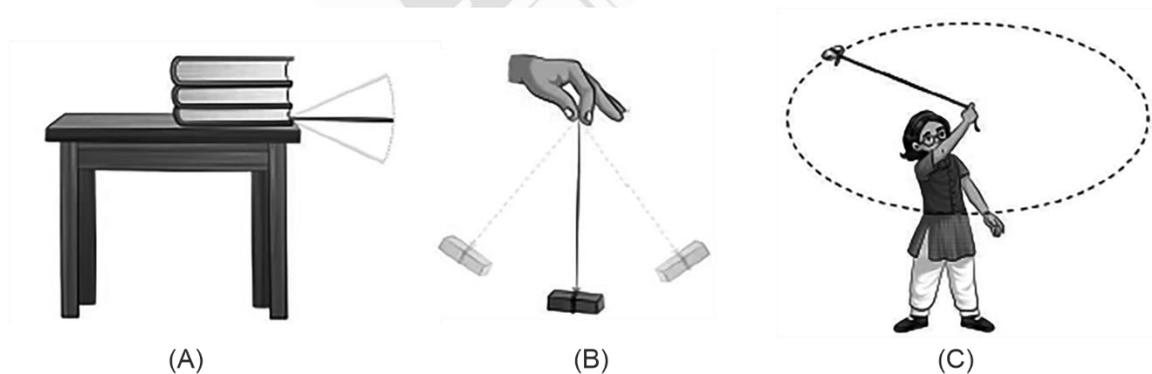
3. In a workshop, an engineer was assembling a mechanical device by using various metal components. However, the small metal screws and nuts kept falling down. What solution could the engineer implement to prevent small metal screws and nuts from getting lost?

- (1) Keep the workspace tidier
- (2) Use a magnetic tray to hold the screws and nuts
- (3) Label the components clearly
- (4) Increase the lighting in the workspace

4. Which among the following thermometers is used to measure room temperature?

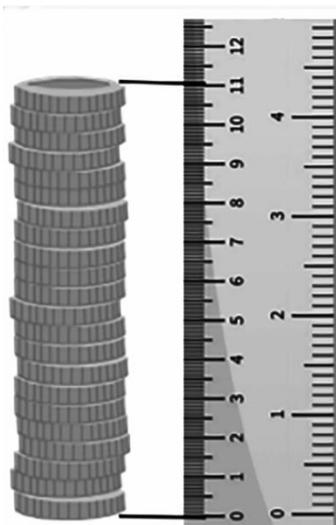


5. Which among the following motions are periodic in nature?

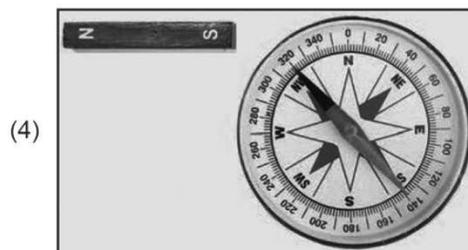
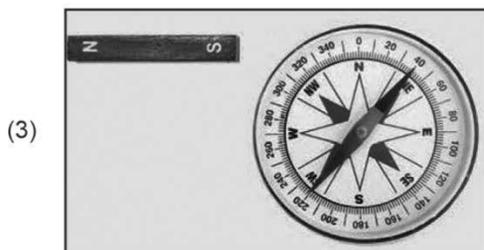
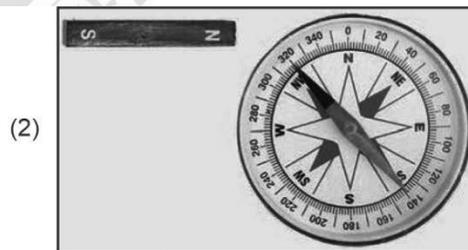
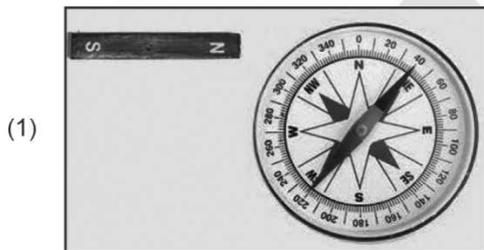


- (1) (A) only
- (2) (A) and (B) only
- (3) (B) and (C) only
- (4) (A), (B) and (C)

6. There are 22 carrom coins placed in the form of a stack near a 15 cm scale as shown in the figure. The thickness of each coin is



- (1) 5 mm
 - (2) 1 mm
 - (3) 20 mm
 - (4) 1.5 mm
7. A magnet is brought closer to a magnetic compass whose north pole is made dark as shown in the figure. Which of the following is the correct deflection of the magnetic compass?



- (1) (1) and (2)
- (2) (2) and (3)
- (3) (3) and (4)
- (4) (1) and (4)

8. Consider the following table

S.No.	Substance	Transparent	Translucent	Opaque
(i)	Wood	×	×	✓
(ii)	Water	✓	×	×
(iii)	Glass	×	✓	×
(iv)	Butter paper	×	✓	×
(v)	Frosted glass	✓	×	×

The correct match is given in

- (1) (i), (ii) and (iii)
 - (2) (i), (ii) and (iv)
 - (3) (ii), (iii) and (iv)
 - (4) (iii), (iv) and (v)
9. Which of the following can be compressed?
- (1) Stone
 - (2) Aluminium
 - (3) Iron
 - (4) Eraser
10. The droplets of water are formed on the outer surface of a glass tumbler containing cold water and ice cubes because of
- (1) Evaporation of atmospheric water vapour
 - (2) Water seeped out from the glass
 - (3) Condensation of atmospheric water vapour
 - (4) Evaporation of water from the glass
11. Consider the following statements
- Statement-I** : Cooling of water in earthen pot is an example of cooling effect of evaporation.
- Statement-II** : AWG stands for Atmospheric Water Generator.
- (1) Only statement-I is correct
 - (2) Only statement-II is correct
 - (3) Both the statements are correct
 - (4) Both the statements are incorrect
12. Which of the following methods you would use to separate bay leaves from vegetable biryani?
- | | |
|-----------------|-------------------|
| (1) Decantation | (2) Sedimentation |
| (3) Winnowing | (4) Handpicking |

13. Which of the following is used in winnowing to separate heavier and lighter components?

- (1) Blowing air
- (2) Water
- (3) Sea water
- (4) Muslin cloth

14. Consider the following materials given in the box.

Iron, paper, wood, copper, zinc, rubber, aluminium, gold, jute

Now, choose the incorrect option

- (1) Number of lustrous materials is five
- (2) Number of non-lustrous materials is four
- (3) Gold is non-lustrous while iron is lustrous material
- (4) Copper and zinc have shiny surfaces

15. Which of the following plants has green and tender stem?

- (1) Tomato
- (2) Neem
- (3) Tulsi
- (4) *Hibiscus*

16. Seed of (i) has a single thin cotyledon. Here, (i) is

- (1) Chickpea
- (2) Maize
- (3) Periwinkle
- (4) *Hibiscus*

17. **Statement-I:** Deodar trees are conical in shape and have flexible and sloping branches.

Statement-II: Cactus have thick and fleshy stem and it is found in the deserts of Rajasthan.

Consider the above given statements and choose the correct option.

- (1) Only statement-I is correct
- (2) Only statement-II is correct
- (3) Both the statements are correct
- (4) Both the statements are incorrect

18. How many of the following is/are locally grown crop(s) of Punjab?

Maize, wheat, bamboo, walnut, coconut

- (1) Two
- (2) Three
- (3) One
- (4) Four

19. All of the following are plant sources of proteins, **except**
- (1) Moong
 - (2) Gram
 - (3) Pea
 - (4) Paneer
20. (i) and (ii) are among the main ingredients of laddoos along with goond. Here, **(i)** and **(ii)** are respectively
- (1) Wheat flour and ghee
 - (2) Nuts and banana
 - (3) Rice and mango
 - (4) Wheat flour and curd
21. Select the **incorrect** match amongst the following.
- (1) Vitamin A – Loss of vision
 - (2) Vitamin B₁ – Beriberi
 - (3) Vitamin C – Goitre
 - (4) Vitamin D – Rickets

MATHEMATICS

There are 11 multiple choice questions in Mathematics. Each question has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** choice is correct.

22. Next number in the number sequence is
3, 9, 27, 81, _____
- (1) 135
 - (2) 343
 - (3) 243
 - (4) 251
23. Sum of first 15 odd number is
- (1) 225
 - (2) 625
 - (3) 900
 - (4) 841
24. Difference of largest 5-digit palindrome and smallest 4-digit palindrome number is
- (1) 98,998
 - (2) 90,000
 - (3) 98,000
 - (4) 98,001

25. Common factor of 18, 80 and 88 is
- (1) 16 (2) 2
(3) 4 (4) 88
26. The Ashok Chakra has 24 spokes, where degree measure between two spokes next to each other are equal. The smallest obtuse angle formed between two spokes is
- (1) 15°
(2) 175°
(3) 90°
(4) 105°
27. Degree measure of an angle which is $\frac{1}{6}$ of a circle (or $\frac{1}{6}$ of a turn) is
- (1) 30° (2) 60°
(3) 45° (4) 90°
28. Number of super cells in the table below is
- | | | | | | | | |
|----|-----|------|----|-----|------|----|----|
| 26 | 252 | 1008 | 32 | 652 | 2000 | 79 | 18 |
|----|-----|------|----|-----|------|----|----|
- (1) 1 (2) 2
(3) 3 (4) 4
29. Which of the following numbers are multiple of 6 but not a multiple of 12?
- (1) 16 (2) 214
(3) 126 (4) 100
30. Which of the following represent data in the form of pictures or objects or parts of objects?
- (1) Pictographs
(2) Bar graphs
(3) Info graphs
(4) Frequency
31. Which of the following angles describes a reflex angle?
- (1) Smaller than 90°
(2) Exactly 90°
(3) Greater than 90° but less than 180°
(4) Greater than 180° but less than 360°
32. Smallest number that is a multiple of all the numbers from 2 to 7 is
- (1) 210
(2) 14
(3) 420
(4) 5040

MENTAL ABILITY

There are 8 multiple choice questions in Mental Ability. Each question has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** choice is correct.

33. The next term in following series is

2, 3, 5, 7, 11, 13, 17, 19, ?

- (1) 26
- (2) 23
- (3) 27
- (4) 28

34. 'Watch' is related to 'Wrist' in the same way as 'Cap' is related to

- (1) Neck
- (2) Hand
- (3) Head
- (4) Waist

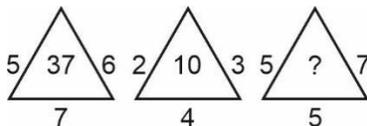
35. Mohan is facing towards northeast. He turns 90° clockwise. Now he is facing towards

- (1) South west
- (2) North west
- (3) South
- (4) South east

36. A is husband of B. C is mother of A. D is daughter of B. How is D related to C?

- (1) Daughter
- (2) Granddaughter
- (3) Mother
- (4) Grandmother

37. Find the missing number.



- (1) 40
- (2) 45
- (3) 42
- (4) 50

38. In which of the following options a letter and its correct mirror image given when mirror is placed on the right of letter?
- (1) A \longrightarrow ∇
 - (2) B \longrightarrow ϖ
 - (3) E \longrightarrow \exists
 - (4) K \longrightarrow \times
39. In a class test Ram is ranked 17th from first and last as well. How many students of class appeared in test?
- (1) 34
 - (2) 33
 - (3) 35
 - (4) 36
40. If MAT = 130120 and CAR = 030118, then COW = ?
- (1) 031422
 - (2) 031523
 - (3) 041523
 - (4) 041522

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OUR TOP PERFORMERS IN NEET(UG) 2025



OUR TOP PERFORMERS IN JEE (Advanced) 2025



Olympiads Results

899 Classroom Students
Aakashians Qualified

in IOQM
2024

161 Classroom Students
Aakashians Qualified

in RMO
2024-25

420 Classroom Students
Aakashians Qualified

in NSEs
2024-25

25 Classroom Students
Aakashians Qualified

for OCSCs/IMOTC
/APMO 2024-25

4902 Classroom Students
Aakashians Qualified

in NSO (Level-I)
2024-25