IIT ASHRAM BRINGS...

Spread Your Wings

उड़ान

A QUEST FOR SCIENCE ASPIRANTS !

CLASS 5

SCIENCE APTITUTE TEST
(SAMPLE QUESTIONS PAPER)

Time : 1.30 : Hour.	**Maximum Marks : 220**

M.M. 180   **TIME : 50 Min.**

IMPORTANT INSTRUCTIONSNS

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

A. General:

1. This booklet is your Question Paper containing 45 questions.

2. Blank papers, clipboards, log tables, slide rules, calculators, cellular phones, pagers, and electronic gadgets in any form are not allowed to be carried inside the examination hall.

3. The answer sheet, a machine–readable Objective Response Sheet (ORS), is provided separately.

4. DO NOT TAMPER WITH / MUTILATE THE ORS OR THE BOOKLET.

B. Question paper format:

6. The question paper consists of **2 parts**

   (Part I : 24 Questions & Part II : 21 Questions)

C. Marking Scheme:

7. For each question in **Part - I, II** you will be **awarded 4 marks** if you have darkened only the bubble corresponding to the correct answer and zero mark if no bubble is darkened. In all other cases where the answer marked is not correct, **minus one (–1) mark** will be awarded.
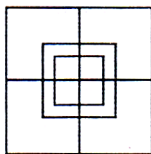
PART - I

1. 1, 3, 5, 7, 9, ?
   - (a) 13
   - (b) 15
   - (c) 17
   - (d) 11

2. 2, 5, 10, 17, ?
   - (a) 24
   - (b) 25
   - (c) 26
   - (d) 27

3. A, C, ?, G, I
   - (a) D
   - (b) E
   - (c) F
   - (d) H

4. Arrange the given words in the order they occur in dictionary.
   1. SIGN
   2. SOLID
   3. SCENE
   4. SIMPLE
   - (a) 3, 1, 2, 4
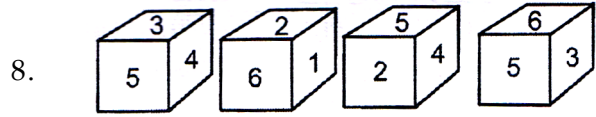   - (b) 3, 1, 4, 2
   - (c) 3, 4, 1, 2
   - (d) 3, 4, 2, 1

Directions : (5 to 6) *In each of the following questions, find which one word can not be made from the letters of the given word.*

5. KALEIDOSCOPE
   - (a) SCALE
   - (b) PADLOCK
   - (c) PACKET
   - (d) DIESEL

6. SUPERIMPOSABLE
   - (a) SPIRE
   - (b) REPTILE
   - (c) POSSIBLE
   - (d) REPOSE

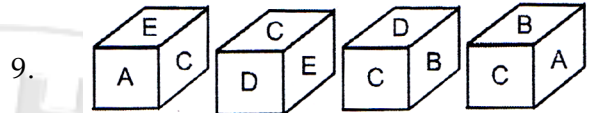7. How many squares are there in the following figure ?

   - (a) 13
   - (b) 14
   - (c) 16
   - (d) 15

Directions : (8 to 9) *In the following question four positions of the same dice have been shown. You have to see these figure and select the number opposite to the number as asked in each question.*

8.

   Which number is opposite to number 5 ?
   - (a) 6
   - (b) 5
   - (c) 1
   - (d) 3

9.

   Which letter will be opposite to letter D ?
   - (a) A
   - (b) B
   - (c) E
   - (d) F

Directions : (10 to 11) *In each of the following questions three out of four alternatives contain alphabet placed in particular form. Find the one that does not belong to the group.*

10. (a) BCB
    (b) DED
    (c) ABA
    (d) KLL

11. (a) BCD
    (b) NPR
    (c) KLM
    (d) PQR

12. How many triangles are there in the following figure ?

    - (a) 6
    - (b) 7
    - (c) 8
    - (d) 9

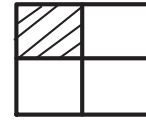*For Rough Work*

13. The value of the expression

    15 − 15 + 15 + 15

    (a) 30   (b) 45

    (c) 60   (d) 0

14. Which one is even number

    (a) 729   (b) 787

    (c) 780   (d) 781

15. What is hundred's digit in 1234

    (a) 1   (b) 2

    (c) 3   (d) 4

16. Expanded form of 32570

    (a) 3000 + 2000 + 500 + 70

    (b) 30000 + 200 + 50 + 70

    (c) 30000 + 2000 + 500 + 70

    (d) 30 + 2000 + 50 + 700

17. What is successor of 999

    (a) 1000   (b) 998

    (c) 9990   (d) 1001

18. What is the value of $1+2-3+5-8$

    (a) 13   (b) 0

    (c) 3   (d) −3

19. Sum of two negative number always

    (a) Positive   (b) 0

    (c) Both   (d) Negative

20. $9999 \times 0 \times 9876 \times 1 = ?$

    (a) 9999   (b) 1

    (c) 0   (d) 98799

21. Any triangle has............sides

    (a) 5   (b) 0

    (c) 2 and 3   (d) 3

22. Write 'Fourty five thousand two hundred fourty' in numbers.

    (a) 45240   (b) 45024

    (c) 4540   (d) 40540

23. $\dfrac{1}{2} + \dfrac{1}{4} = ?$

    (a) $\dfrac{2}{4}$ (b) $\dfrac{3}{4}$

    (c) $\dfrac{2}{2}$ (d) 1

24. Write the fraction of shaded part

    (a) $\dfrac{3}{4}$ (b) $\dfrac{1}{2}$

    (c) $\dfrac{1}{4}$ (d) $\dfrac{5}{4}$

PART - II

1. Push or Pull is called

    (a) Force   (b) Velocity

    (c) Acceleration   (d) Pressure

2. Units of Mass

    (a) grams   (b) kilogram

    (c) both a & b   (d) none

3. Units of time

    (a) Minutes   (b) Second

    (c) Hour   (d) All of the above

4. Convert 100 cm to M

    (a) 1 M   (b) 10 M

    (c) 20 M   (d) 200 M

5. Convert 1 kg to gram

    (a) 100 g   (b) 10 g

    (c) 1000 g   (d) None of the above

6. Source of energy

    (a) sun   (b) wind

    (c) both a & b   (d) none of the above

For Rough Work

7. Body which doesn't move is said to be is
   (a) motion   (b) rest
   (c) heavy   (d) light

8. The Physical state of water is:
   (a) Solid   (b) Liquid
   (c) Gas   (d) None of these

9. The colour of water is:
   (a) Blue   (b) White
   (c) colurless   (d) All of these

10. The chemical formula of water is:
    (a) H_2O_2 (b) H_2O
    (c) H_2 (d) O_2

11. The chemical formula of ice is:
    (a) H_2 (b) O_2
    (c) H_2O (d) H_2O_2

12. What is the main cause of acid rain?
    (a) Pollution   (b) Deforestation
    (c) A forestation   (d) Excessive rains

13. Which of the following is NOT soluble in water?
    (a) Salt   (b) Sugar
    (c) Oxygen   (d) Petrol

14. Which of the following is NOT a physical change?
    (a) Tearing a paper
    (b) Bending an iron rod
    (c) Freezing water into ice
    (d) None of these

15. Which two senses often work together?
    (a) Seeing and Smelling
    (b) Smelling and Tasting
    (c) Seeing and Hearing
    (d) Smelling and Hearing

16. What are cilia?
    (a) Small molecules that float in the air and into the nose
    (b) Taste sensors on the tongue which send signals to the brain
    (c) Tiny little hairs on the roof of the nose
    (d) Sour taste buds

17. Tongue have
    (a) Taste Buds   (b) Cilia
    (c) Anosmia   (d) Olfactory nerve

18. Animals which move without eyes.
    (a) Ant   (b) Snail
    (c) both (a) and (b)   (d) none

19. Humans breathe through which of the following systems?
    (a) Cardiovascular System
    (b) Nervous System
    (c) Digestive System
    (d) Respiratory System

20. Which of the following substances do we breathe in?
    (a) Carbon Dioxide   (b) Nitrogen
    (c) Water   (d) Oxygen

21. Which specific complex molecule do we get from eating?
    (a) DNA
    (b) RNA
    (c) Dihydrogen Monoxide
    (d) Glucose

For Rough Work