IIT ASHRAM BRINGS...





SCIENCE APTITUDE TEST

INSTRUCTIONS

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

Caution: Class, as given on paper above MUST be correctly marked on the answer OMR sheet before attempting the paper. Wrong Class will give wrong results.

1. This booklet consists of 75 questions. Question paper consists of 4 sections. Marking scheme is given in table below:

Section	Subject	Questions No.	Making Scheme for each questions	
		**/	Correct Answer	Wrong Answer
PART - I	Mental Ability	15	4	-1
PART - II	Mathematics	30	4	-1
PART - III	Physics & Chemistry	20	4	-1
PART - IV	Biology	10	4	-1

- Answers have to be marked on the OMR sheet. The Question Paper contains blank spaces for your rough work. No additional sheets will be provided for rough work.
- 4. Blank papers, cellular phones, smart watches, log tables, slide rule, calculator and electronic devices, in any form, are not allowed.





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PART - I: MENTAL ABILITY

1 Choose the odd one out









- 2. Find the missing alphabet: A, C, E, G, ?, K
 - (a) L

(b) M

(c) T

- (d)
- 3. Which of the following will replace the question mark?











- 4. Arrange the following words as they are arranged in the dictionary
 - 1. Land

(c)

- 2. Lamp
- 3. Landscape
- 4. Lantern
- (a) 2,1,3,4

1,2,3,4

- (b) 2,1,4,3 (d) 1,3,4,2
- 5. If the letter of the word DESTINY are rearranged in alphabetical order, which letter will be in the middle in the order after rearrangement?
 - (a) D
- (b)

(c) Y

- (d) N
- 6. If 'Sugar' is called 'Book', 'Book' is called 'Salt' and 'Salt' is called 'Sweet', then what do we read?
 - (a) Sugar
- (b) Sweet
- (c) Book
- (d) Salt

- 7. If WATER is written as YCVGT then what is written as FIRE?
 - (a) IRFE
- (b) HKTG
- (c) REFI
- (d) ERIF
- 8. In which figure is the below given shape hidden?



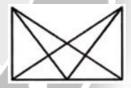






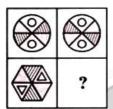


9. How many triangles are there in the following figure?



- (a) 12
- (b) 17
- (c) 18
- (d) 19
- 10. Rahul started walking straight towards East. He walks a certain distance and then turns his right and walks again. Find the direction he's walking now?
 - (a) North
- (b) East
- (c) South
- (d) West

- 11. A man walks 5 kms towards South and then turns to the right. After walking 3 kms, he turns to the left and walks 5 km. now, in which direction is he from the starting point?
 - (a) South
- (b) South-West
- (c) North-west
- (d) West
- 12. Which of the following can replace the question mark?











(c)





- 13. A is older than B but younger than C. D is younger than E but older than A. If C is younger than D, who is the eldest of all?
 - (a) A

(b) E

(c) D

- (d) C
- 14. Which of the following represents the correct sequence?
 - 1. Seed
- 2. Flower
- 3. Soil
- 4. Plant
- 5. Fruit
- (a) 4,2,5,1,3
- (b) 2,5,4,1,3
- (c) 3,2,1,5,4
- (d) 3,1,4,2,5
- 15. Sugan ranks sixteenth from the top and forty ninth from the bottom in a class. How many students are there in the class?
 - (a) 64
- (b) 54
- (c) 65

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(d) 66

PART - II: MATHEMATICS

- Area of a square is 49 cm². Its perimeter will be
 - 49 cm
- (b) 7 cm
- (c) 28 cm
- (d) 14 cm
- What is the average of first 5 natural numbers?
 - (a)

(b) 4

(c) 8

- (d) 3
- What type of fraction is $\frac{32}{17}$?
 - (a) Proper fraction
- (b) Unit fraction
- (c) Equivalent fraction (d) Improper fraction
- 1 cm = ____ mm.
 - (a) 0.1
- 100
- (c) 10
- 1000 (d)
- Smallest factor of any number is
 - (a) 0

(c) 1

- (d) 3
- HCF of 2 prime numbers is
 - (a) 1

(b)

(c) 0

- (d) 3
- The sum of place values of 7 in the number 278072 is
 - (a) 70070
- (b) 14
- (c) 70007
- (d) 77000
- $0 \div 9898 =$
 - (a) 9898
- (b)

(c)

- Not defined (d)
- Example of a proper fraction is
 - (a)
- (c)
- 10. 1 gram = $__$ kgs.
 - (a) 10
- 100 (b)
- 1000 (c)
- 0.001 (d)

- 11. Raju reads $\frac{3}{5}$ of a book. He finds that there are still 80 pages left to read. The total number of pages in the book are __
 - 250
- (b) 400
- 800 (c)
- (d) 200
- divide by 7 is

- Compare:
 - (a)

(c) <

- none
- Fraction is part of a
 - (a) Half
- Quarter (b)
- (c) Whole
- (d) Third quarter
- 15. At 3:25, the smaller angle formed between the two hands of a clock is
 - (a) Obtuse
- (b) Acute
- (c) Right
- (d) None
- 16. Mixed fraction = nearest natural number +
 - Improper fraction (b) Proper fraction

- (c) Like fraction
- (d) Complex fraction
- 17. Decimals having same number of decimal places is called
 - (a) Like decimals
- (b) Unlike decimals
- (c) Decimals
- (d) Whole decimals

- 18. Which of the following statements is correct?
 - (a) Every prime number is odd.
 - (b) Every even number is composite.
 - (c) Sum of two odd numbers is always odd.
 - (d) HCF of a given number is always a factor of their LCM.
- 19. Which of the following is a perfect square?
 - (a) 28
- (b) 26
- (c) 25
- (d) 24
- 20. 2.5 kg = ____ grams
 - (a) 250
- (b) 25000
- (c) 0.025
- (d) 2500
- 21. What will be the quotient when $\frac{21}{5}$ is divided by

3?

(a) $\frac{7}{5}$

- (b) 7
- (c) $\frac{63}{15}$
- (d) $\frac{3}{5}$
- 22. Which among the following fractions is smallest?
 - (a) $\frac{10}{13}$
- (b) $\frac{10}{8}$
- (c) $\frac{10}{19}$
- (d) $\frac{10}{10}$

- 23. What will be the answer when 8 is subtracted from the product of 7 and 8?
 - (a) 48
- (b) 8

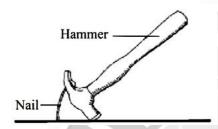
- (c) 64
- (d) None of the above
- 24. 8 sided polygon is called a
 - (a) Hexagon
- (b) Octagon
- (c) Heptagon
- (d) Decagon
- 25. The average of first five prime numbers will be
 - (a) 36
- (b) 7.2

(c) 5

- (d) 5.6
- 26. Repeated addition is called
 - (a) Subtraction
- (b) Division
- (c) Inverse
- (d) Multiplication
- 27. Which of the following statements is true?
 - (a) (-23) = (23)
- (b) 49 > (-23)
- (c) 49 < (-23)
- (d) (-49) > 49
- 28. The measure of right angle is
 - (a) 180°
- (b) 120°
- (c) 90°
- (d) 60°
- 29. By how much is 42 greater than 29?
 - (a) 13
- (b) 71
- (c) 10
- (d) none
- 30. Rohan obtained 32 marks out of 50. The ratio of total marks to the marks scored by Rohan is
 - (a) 32:50
- (b) 50:32
- (c) 1:1
- (d) 50:18

PART - III: PHYSICS & CHEMISTRY

- 1. Two like poles of a magnet always ___
 - (a) Attracts each other
 - (b) Always Repel each other
 - (c) Sometimes repel and sometimes attract
 - (d) Can't say
- Which of the following statements is true about using a hammer as a lever to pull a nail out of a piece of wood?



- (a) The load is much near to the fulcrum than the effort.
- (b) The lever changes the direction of the force.
- (c) We use larger force to pull out the nail with hammer as compared to pulling it out directly without using the hammer.
- (d) The pulling action is changed to the vertical lifting action on the nail.
- 3. X is a space object that orbits around sun but in an irregular orbit that intersects orbit of a planet. What is X?
 - (a) Neptune
- (b) Pluto
- (c) Titan
- (d) Both (b) and (c)

4. A paper cutter is shown in the given figure. At which position P, Q, R or S should a straw be placed so that least force is applied to cut it?



(a) P

(b) Q

(c) R

- (d) S
- 5. We see what we call lunar phases because of ____.
 - (a) the changing amount of shadow on the Moon
 - (b) the changing amount of light reflecting towards the Earth
 - (c) the changing position of the Sun
 - (d) the tilt of the Earth
- 6. Earthquake are measured in ___
 - (a) Rular
- (b) Barometer
- (c) Richter Scale
- (d) None of the above
- 7. Water at 100 degrees temperature is in which state
 - (a) solid
- (b) liquid
- (c) gaseous
- (d) more than one
- 8. 20 seconds equal to ___.
 - (a) 1/4 minute
- (b) 1/2 minute
- (c) 1/5 minute
- (d) 1/3 minute

IIT ASHRAM UDAAN		CLASS - 5
Hot magma whon reaches on Earth's surface is known	15. What is the chemical formula	for carbon diox

ide CO (a) H₂O (b) as ____. (c) CO₂ (d) N_2 (a) Lava Cyclone 16. In which state do particles have the most onergy (c) Crater (d) None of these and move the fastest 10. Global warming is the result of which of the following? solid (a) Liquidd Air pollution (b) Water pollution (c) Gas (d) Nome of thabom Noise pollution (d) Soil pollution (c) 17. What do we call tiny solid particles or liquid 11. What happens to water when it is frozen droplets present in the air it become a gas (b) It become a liquid (a) Just Haze It become a solid (d) It evaporates (c) Aerosols (d) smog 12. What is the primary source of energy from the 18. What air is the approximate % of oxygen in air? sun? 21% 31%. (b) (a) wind (b) solar (c) 41% 51% (d) (d) (c) hydro Geothermal 19. What the chemical symbol of sodium 13. Which gas makes up the majority of earth (b) S (a) 0 atmosphere (d) F (c) Na Oxygen carbon dioxide (a) 20. Which of the following is a liquid at room Nitrogen (d) Hydrogen (c) temperature 14. In which state does matter have a definite shape (a) ice (b) water but takes the shape of its container. Rock Steam (d) Solid Liquid (a) (b) (c) (d) Plasma. gas

PART - IV : BIOLOGY

- 1. Why most animals have one or two senses more important than the others
 - (a) Because animals need to feed
 - (b) Because animals are alive
 - (c) Because animals need to adapt to their specific environments
 - (d) Because animals have babies
- Who has a very strong sense of smell by which they can differentiate a number of their own colony and the members from some other colony?
 - (a) Ants
- (b) Birds
- (c) Sheep
- (d) Dolphins
- 3. Where does our food go, after we put it into the mouth and swallow it?
 - (a) Liver
- (b) Stomach
- (c) Small intestine
- (d) Pancreas
- 4. In which of the following ways, do we lose water from our body?
 - (a) Sweating
- (b) Urination

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- (c) Both a and b
- (d) None of the above

- 5. In the old days people used the bark of thetree to make medicine for malaria
 - (a) Banyan
- (b) Cinchona
- (c) Peepal
- (d) mango
- 6. Which of the following seed has a rough texture?
 - a) Papaya
- (b) Rajma
- (c) Apple
- (d) All of the above
- 7. Which of are following are prevented by trees?
 - (a) Soil erosion
- (b) Floods
- (c) Irregular rainfall
- (d) All of the above
- 8. Every bee hive has how many queen bees.
 - (a) 1

(b) 2

(c) 3

- (d) 4
- 9. What does Basava's father do?
 - (a) Teaching
- (b) Fishing
- (c) Farming

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- (d) Business
- What are the symptoms that show that a person has malaria
 - (a) Fever and stomach pain
 - (b) Fever with chills and rigors
 - (c) Fever, vomiting and loose motions
 - (d) Indigestion and fever