

# IIT ASHRAM BRINGS...



CLASS 5

## SCIENCE APTITUDE TEST

TIME : 2 HOURS

MAX MARK : 300

### 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

3. 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.

**IIT Ashram**

JEE MAIN | JEE ADVANCED | GUJCET | FOUNDATION



**Drs' Ashram**

NEET | GUJCET | FOUNDATION

Vasna - Bhayli Branch : Akshar Pavilion,  
3rd Floor, Tower A, Vasna Bhayli Road, Gotri  
Opp. Bhyali TP - 1 Vadodara - 390021

Manjalpur Branch : SF-1 TO 12, Kabir Plaza,  
Beside Kabir Complex, Above IDBI Bank, Manjalpur,  
Vadodara - 390010 .

Anand Branch : 2nd Floor, HR Stone Building,  
Beside Croma Showroom, A.V. Road, Nr. Town Hall,  
Anand.

[www.iitashram.com](http://www.iitashram.com) | Email :- [iitashram.2011@gmail.com](mailto:iitashram.2011@gmail.com)

ALKAPURI  
9081062221 / 9033063029

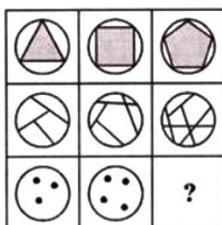
VASNA-BHAYLI  
6358891896 / 9081062221

MANJALPUR  
9033063027 / 9033063028

ANAND  
9227777098 / 8460009041



12. Which of the following will replace the question mark?



(a) 

(b) 

(c) 

(d) 

13. Pune is larger than Jhansi. Sitapur is larger than Chittore. Rajgarh is not as large as Jhansi but larger than Sitapur. Which is the smallest city out of these?

(a) Pune (b) Jhansi  
(c) Sitapur (d) Chittore

14. Nikhil ranked 8th from the top in the class of 50 students. What is his rank from the bottom?

(a) 42nd (b) 43rd  
(c) 44th (d) 45th

15. Rishi spent 25 minutes on his homework last night. He started at 5:50 pm. At what time will he finish his work?

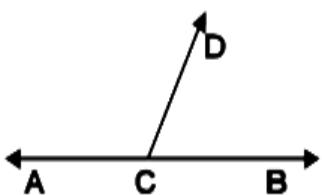
(a) 6:15 pm (b) 5:10 pm  
(c) 5:15 pm (d) 6:10 pm

## PART - II : MATHEMATICS

- The difference between successor and predecessor of 1000 is  
(a) 1 (b) 2  
(c) 1000 (d) 999
- The largest 6 digit number ending with 8 is  
(a) 999999 (b) 900008  
(c) 100008 (d) 999998
- The predecessor of 1 crore is  
(a) 1,00,00,000 (b) 99,99,999  
(c) 9,99,99,999 (d) 1,00,00,001
- The polygon with seven sides is called  
(a) Hexagon (b) Octagon  
(c) Heptagon (d) Square
- Which of the following is an odd number?  
(a) 2 (b) 4  
(c) 5 (d) 6
- The three prime number between 1 and 20 are  
(a) 7, 11, 19 (b) 7, 9, 11  
(c) 11, 15, 19 (d) 5, 15, 18
- I am a number between 660 and 665. I am divisible by 3 but not by 6. What number am I?  
(a) 661 (b) 662  
(c) 663 (d) 664
- The largest prime number between 1 and 100 is  
(a) 89 (b) 99  
(c) 93 (d) 97
- A factor of 91 is  
(a) 17 (b) 13  
(c) 31 (d) 19

Space for Rough Work

10. In the figure below, the measure of  $\angle ACB$  is



(a)  $120^\circ$  (b)  $60^\circ$   
 (c)  $180^\circ$  (d)  $360^\circ$

11. There are \_\_\_\_ types of triangles on the basis of sides.

(a) 4 (b) 3  
 (c) 2 (d) 1

12. Which of the following cannot be drawn by compasses?

(a) Line (b) Arc  
 (c) Circle (d) None of the above

13. A decagon has \_\_\_\_\_ sides.

(a) 10 (b) 12  
 (c) 14 (d) 8

14. The average of first 5 even numbers is

(a) 6 (b) 10  
 (c) 30 (d) 4

15. Aman buys a toy for Rs. 172 and sells it for Rs. 198. Which of the following is true?

(a) There is a profit of Rs. 370  
 (b) There is a loss of Rs. 26  
 (c) There is a profit of Rs. 26  
 (d) There is a loss of Rs. 370

16. Value of the expression  $4 - (-7)$  is

(a) 21 (b) 3  
 (c) -11 (d) 11

17. Which of the following statements is false?

(a)  $(-7) > (-4)$  (b)  $(-9) < 9$   
 (c)  $(-100) > (-110)$  (d)  $0 < 10$

18. 1 kilometre = \_\_\_\_ meter

(a) 10 (b) 0.1  
 (c) 1000 (d) 100

19. Zero is greater than any negative integer.

(a) False (b) True  
 (c) Sometimes (d) Can't say

20.  $\frac{1}{24}$  of a day is

(a) 24 hours (b) 12 hours  
 (c) 6 hours (d) 1 hour

21.  $\frac{7}{8}$  is what type of fraction?

(a) Proper fraction (b) Improper fraction  
 (c) Unit fraction (d) Mixed fraction

22. Area of square is  $64 \text{ cm}^2$ . Its perimeter will be

(a) 16 cm (b) 64 cm  
 (c) 32 cm (d) 128 cm

23. Length of a rectangle = area  $\div$  \_\_\_\_\_

(a) Perimeter (b) Breadth  
 (c) Length (d) Area

24. 300 in Roman numerals will be

(a) XXX (b) MMM  
 (c) CCC (d) LLL

25. The sum of 7 and  $\frac{1}{9}$  is

(a)  $\frac{64}{9}$  (b)  $\frac{8}{9}$   
 (c)  $\frac{9}{64}$  (d)  $\frac{36}{9}$

Space for Rough Work

26. Product of a fractional number and its multiplicative inverse is  
 (a) 0 (b) 1  
 (c) Fraction itself (d) None of the above

27. Which of the following fraction is the largest?  
 (a)  $\frac{3}{16}$  (b)  $\frac{3}{2}$   
 (c)  $\frac{3}{8}$   
 (d) All the above given fractions are equal

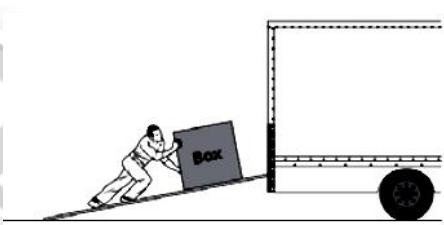
28. Raju scored 16 marks out of 65. Its fraction will be  
 (a)  $\frac{65}{16}$  (b)  $\frac{16}{65}$   
 (c)  $\frac{49}{65}$  (d) none

29. 35 paise = \_\_\_\_\_ Rupees  
 (a) 32 (b) 3.5  
 (c) 0.35 (d) 0.035

30. Smallest factor of any number will be  
 (a) 1 (b) 2  
 (c) 3 (d) 0

### PART - III : PHYSICS & CHEMISTRY

1. Magnetic compass \_  
 (a) Always points in N-S direction.  
 (b) Used to find direction  
 (c) Is a magnet  
 (d) All of the above

2. The box in the given figure would be easier to move if the surface of the ramp was smoother because there would be less \_\_  


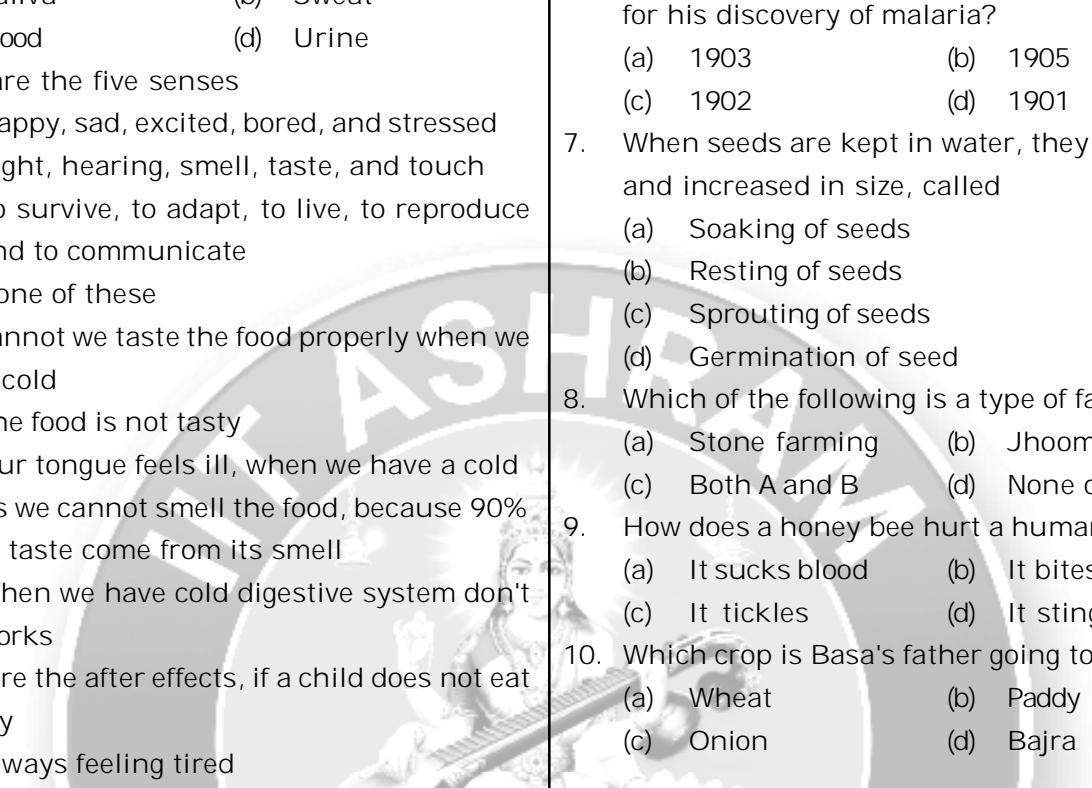
(a) Gravity pulling on the box.  
 (b) Friction opposing the box.  
 (c) Mass in the box  
 (d) Distance to pull the box

3. Which of the following statements is incorrect about the Sun?  
 (a) The Sun is a huge mass of very hot gases.  
 (b) The Sun is the only planet that we can see in the day.  
 (c) The distance of the Sun from Earth is about 150000000 km.  
 (d) The Sun is important to the Earth because it provides light energy to green plants to make food

Space for Rough Work

### Space for Rough Work

## **PART - IV : BIOLOGY**



1. A tiger can at once come to know if there is another tiger in its area by the smell of the....  
(a) Saliva (b) Sweat  
(c) Blood (d) Urine

2. What are the five senses  
(a) Happy, sad, excited, bored, and stressed  
(b) Sight, hearing, smell, taste, and touch  
(c) To survive, to adapt, to live, to reproduce and to communicate  
(d) None of these

3. Why cannot we taste the food properly when we have a cold  
(a) The food is not tasty  
(b) Our tongue feels ill, when we have a cold  
(c) As we cannot smell the food, because 90% of taste come from its smell  
(d) When we have cold digestive system don't works

4. What are the after effects, if a child does not eat properly  
(a) Always feeling tired  
(b) Mostly feel lazy and weak  
(c) Mostly feels sick  
(d) All of these

5. (a) Tuberculosis (b) Measles  
(c) Cholera (d) Tetanus

6. In which year did Ronald Ross get the Nobel prize for his discovery of malaria?  
(a) 1903 (b) 1905  
(c) 1902 (d) 1901

7. When seeds are kept in water, they get swelled and increased in size, called  
(a) Soaking of seeds  
(b) Resting of seeds  
(c) Sprouting of seeds  
(d) Germination of seed

8. Which of the following is a type of farming  
(a) Stone farming (b) Jhoom farming  
(c) Both A and B (d) None of these

9. How does a honey bee hurt a human  
(a) It sucks blood (b) It bites  
(c) It tickles (d) It stings

10. Which crop is Basa's father going to grow  
(a) Wheat (b) Paddy  
(c) Onion (d) Bajra

### Space for Rough Work



**IIT Ashram** "Where Working hard is a habit"  
IIT JEE | NEET | GUJCET | FOUNDATION (6 to 10)

# ADMISSION OPEN

**IIT-JEE**

XI & XII

**NEET**

XI & XII

**FOUNDATION**

VI to X

## Courses Offered

1 & 2 YEAR  
**PRE-FOUNDATION**

CLASSES : VI to VIII

1 & 2 YEAR  
**IIT-JEE**

CLASSES : XI & XII

**1 YEAR REPEATER  
& WEEKEND**

IIT JEE / NEET  
CLASSES : XII Pass &  
XII Running

1 & 2 YEAR  
**FOUNDATION**

CLASSES : IX & X

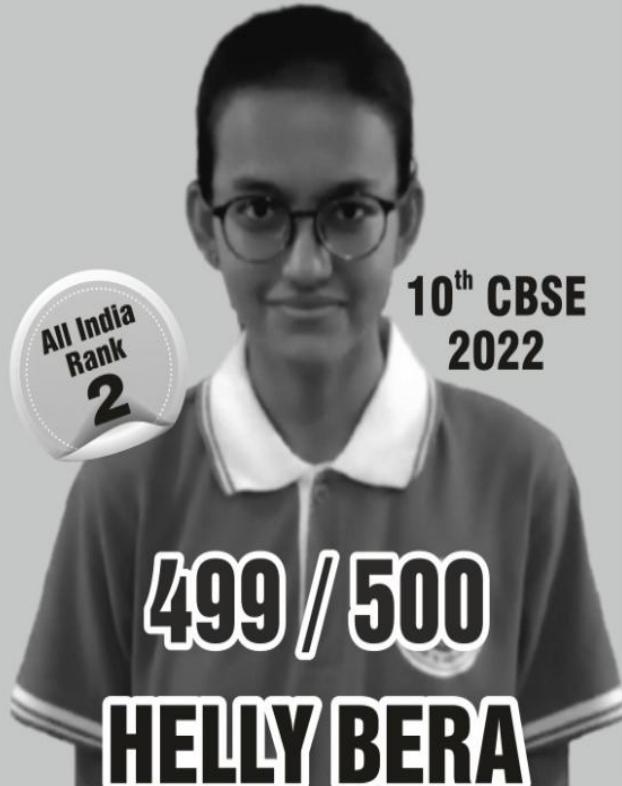
1 & 2 YEAR  
**NEET**

CLASSES : XI & XII

**CRASH COURSE  
(PCM / PCB)**

IIT JEE / NEET  
Just After XII Board  
Exam.

**GUJARAT TOPPER**



**RESULT OF LAST 19 YEARS**

**939**

in JEE Advanced

**4802**

in JEE Main

**520**

in NEET

[www.iitashram.com](http://www.iitashram.com)