

IIT ASHRAM BRINGS...



CLASS
6

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 | Email :- iitashram.2011@gmail.com

ALKAPURI
9081062221 / 9033063029

VASNA-BHAYLI
6358891896 / 9081062221

MANJALPUR
9033063027 / 9033063028

ANAND
9227777098 / 8460009041

PART - II : MATHEMATICS

1. What is the place value of 0 in 25,03,74,187?

(a) Ten lakhs (b) Lakhs
(c) Zero (d) 5 crores

2. Roman numeral for the greatest 3-digit number is—

(a) CMIIC (b) CMXCIX
(c) CMIXIX (d) IXIXIX

3. In a sum, the divisor is 173, the quotient is 2,544 and the remainder is 60. What is the dividend?

(a) 12924 (b) 440172
(c) 152813 (d) 172544

4. 48 is not a multiple of

(a) 4 (b) 12
(c) 18 (d) 16

5. The greatest common factor of 120 and 192 is

(a) 12 (b) 2
(c) 3 (d) 24

6. $\frac{7}{100}$ is equal to

(a) 7.1 (b) 7.01
(c) 0.7 (d) 0.07

7. A brick is an example of a

(a) Cube (b) Cuboid
(c) Prism (d) Cylinder

8. In which sets of figure 'all angles are right angle'?

(a) Rhombus, Square
(b) Rhombus, Rectangle
(c) Paralellogram, Rhombus
(d) Rectangle, Square.

9. The additive identity element in the set of integers is

(a) 1 (b) 1
(c) 0 (d) None of these

10. Which of the following is incorrect?

(a) $5 > 0$ (b) $6 < -8$
(c) $7 > -13$ (d) $5 < 9$

11. If $\frac{11}{4} = \frac{77}{x}$, then $x =$

(a) 28 (b) $\frac{77}{28}$
(c) 44 (d) 308

12. The value of $\frac{37}{10000}$ is

(a) 0.0370 (b) 0.0037
(c) 0.00037 (d) 0.000037

13. Which of the following is the largest decimal?

(a) 0.0017 (b) 0.007
(c) 0.017 (d) 0.0071

14. In algebra, $a \times b$ means ab , but in arithmetic 3×5 is

(a) 35 (b) 53
(c) 15 (d) 8

15. $x + y = y + x$ is

(a) Commutative property
(b) Associative property
(c) Closure property
(d) Distributive property

16. $5a$ equals

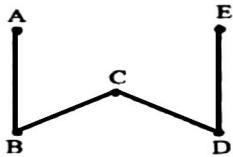
(a) $5 + a$ (b) $a \times a \times a \times a \times a$
(c) $5 \times a$ (d) None of these

Space for Rough Work

Space for Rough Work

PART - III : PHYSICS & CHEMISTRY

1. A boy going for a walk follows the path as shown in the figure. The total trip consists of four straight line path AB, BC, CD and DE. At the end of the walk what is the person's displacement from the starting point?

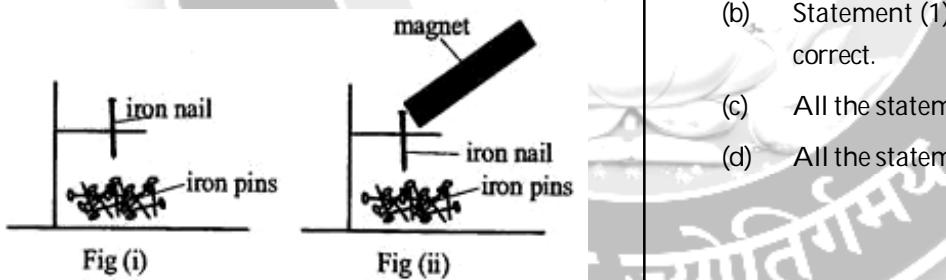


(a) AB + BC + CD + DE
 (b) $\frac{AB + BC + CD + DE}{2}$
 (c) BC + CD
 (d) AE

2. The motion of a coin moving over a carom board can be classified as _____

(a) Rectilinear motion (b) Circular motion
 (c) Periodic motion (d) Rotatory motion

3. Look at the figure showing iron pins being attracted towards nail in (ii) and tell which of the following is demonstrated by it?



(a) Pins get converted into artificial magnet in fig.(ii)
 (b) Pins gets demagnetised in fig. (i)
 (c) The iron nail becomes an artificial magnet in fig.(ii)
 (d) None of the above occurs

4. North pole of a magnet is _____.
 (a) That pole of the magnet which points in north direction when the magnet is freely suspended
 (b) That pole of the magnet which is known as north seeking end when magnet is freely suspended
 (c) That pole of the magnet which is attracted towards the south pole of earth's magnet
 (d) All the above are correct

5. Read the following three statements carefully and choose the correct option.

Statement-1: There is very less current flows when an electric circuit is open.

Statement-2: When the switch of an electric circuit is in off mode, the circuit is said to be open.

Statement-3: One can get a shock in open circuit.

(a) Statement (1) and (3) are incorrect while statement (2) is correct.
 (b) Statement (1) and (2) are incorrect while (3) is correct.
 (c) All the statements are correct.
 (d) All the statements are incorrect.

Space for Rough Work

6. The figure shows a light ray moving towards a smooth surface.



Which of the following figure shows the correct reflected ray of light?

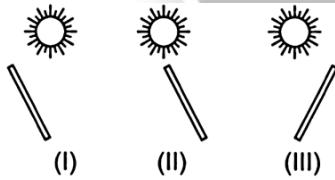
(a) 

(b) 

(c) 

(d) 

8. Three sticks are placed in an open field as shown in figure. Which of the following sticks will form the shadow of equal length?



- (a) Only sticks (I) and (II)
- (b) Only sticks (II) and (III)
- (c) Only sticks (I) and (III)
- (d) All sticks (I), (II) and (III).

9. Which of the following statement is wrong about $i^{1/2}$?

- (a) Inertia is the property of a body to be at rest.
- (b) Inertia is the property of a body to be in motion.
- (c) Inertia is the property of a body to be moving in one direction.
- (d) None of the above

10. The S.I. Unit of Luminous intensity is __.

(a) Mole (b) Candela
(c) Ampere (d) Kilogram

11. Which of the following is generally incorrect about physical changes

- (a) No new substance is formed
- (b) Are reversible changes.
- (c) Are irreversible changes
- (d) Changes in size is a physical changes

12. Which among the following is an element

(a) H_2O (b) Sugar
(c) Sodium (d) CO_2

13. Which of the following is a fibre crop

14. The process of separating fibres of cotton from its Seeds is called?

(a) Knitting (b) Ginning
(c) Spinning (d) Weaving

15. Which of the following is not a matter?

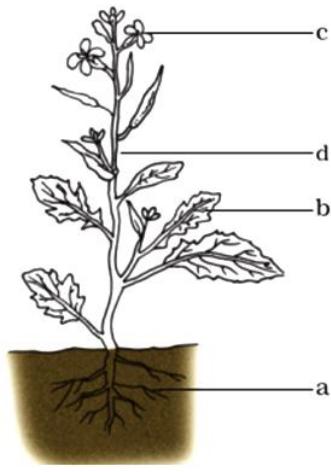
16. Which of the following is nonmetal?

Space for Rough Work

PART - IV : BIOLOGY

1. Fishes move around in the water with the help of their
 - (a) Mouths and gills
 - (b) Legs and scale
 - (c) Wings and tails
 - (d) Fins and tails
2. Which one of these animals can live on land as well as in water?
 - (a) Deer
 - (b) Giraffe
 - (c) Frog
 - (d) Fox
3. Fast food like pizza, burgers, etc. are very good in taste and they contain huge amounts of
 - (a) Carbohydrates
 - (b) Protein
 - (c) Fat
 - (d) Vitamin
4. Rickets is caused by the deficiency of
 - (a) Vitamin-A
 - (b) Vitamin-B
 - (c) Vitamin C
 - (d) Vitamin D
5. The reproductive part of the plant is
 - (a) Flower
 - (b) Root
 - (c) Node
 - (d) Internode
6. Which is natural fibre
 - (a) Silk
 - (b) Nylon
 - (c) Rayon
 - (d) All of these
7. Which can be used for making manures?
 - (a) Earthworm
 - (b) Houseflies
 - (c) Eagle
 - (d) Crow
8. How many bones are there in the human skeleton?
 - (a) 300
 - (b) 200
 - (c) 206
 - (d) 306

Space for Rough Work



- (a) a: roots, b: leaf, c: flower, d: stem
- (b) a: leaf, b: roots, c: flower, d: stem
- (c) a: flower, b: roots, c: leaf, d: stem
- (d) a: stem, b: leaf, c: flower, d: roots



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

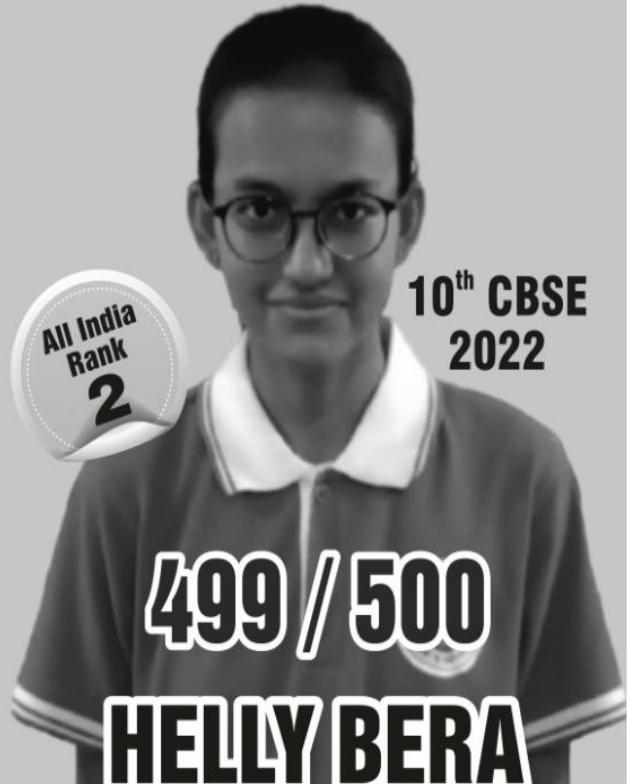
CLASSES : XI & XII

CRASH COURSE (PCM / PCB)

IIT JEE / NEET

Just After XII Board Exam.

GUJARAT TOPPER



499 / 500

HELLY BERA

RESULT OF LAST 19 YEARS

939

in JEE Advanced

4802

in JEE Main

520

in NEET

www.iitashram.com