



JEE | NEET | GUJCET | BOARDS (11TH-12TH) | FOUNDATION (8TH-10TH)

MAX TIME: 40 MIN

TEST PAPER

M.M-80

CODE-

Instructions: Each question carries 4 marks and are only one correct answer type questions.

PHYSICS

- 1. AB and CD, two spherical mirrors, form parts of a hollow spherical ball with its centre at O as shown in the given figure. If arc AB= $\frac{1}{2}$ arc CD, what is the ratio of their focal lengths?
 - (a) 2:1
 - (b) 1:1
 - (c) 1:2
 - (d) 4:1
- (u) 4.1
- 2. Why is no vision possible at blind spot?
 - (a) Due to change in thickness of eye lens while focusing.
 - (b) Due to its shape.
 - (c) Due to absence of light sensitive cells.
 - (d) None of these.
- 3. Magnetic field lines can be used to determine
 - (a) the shape of the magnetic field
 - (b) only the direction of the magnetic field
 - (c) only the relative strength of the magnetic field
 - (d) both the direction and the relative strength of the magnetic field.
- 4. The major component of LPG is
 - (a) mercaptan
- (b) methane
- (c) ethane
- (d) butane.
- 5. At the time of short circuit, the current in the circuit
 - (a) Vary continuously
- (b) Reduces considerably
- (c) Increase heavily
- (d) Does not change

CHEMISTRY

6. The reaction that differs from the rest of the reaction given is-

- (a) formation of calcium oxide from limestone
- (b) formation of aluminium from aluminium oxide
- (c) formation of sodium carbonate from sodium hydrogen carbonate
- (d) formation of mercury from mercuric oxide
- 7. Consider the following table:

Substance	рН
Lemon	2.3
Battery acid	х
Sea water	8.5
Apple	3.1

The value of x in above table is:

(a) 0

(b) 1.3

(c) 2.5

- (d) 1.9
- 8. Ethane (C_2H_6) on complete combustion gave CO_2 and water. It shows that the results are in accordance with the law of conservation of mass. Then, the coefficient of oxygen is equal to
 - (a) 7/2

(b) 3/2

- (c) 5/2
- (d) 9/2
- Mineral acids are stronger acids than carboxylic acids because
 - (i) mineral acids are completely ionized.
 - (ii) carboxylic acids are completely ionized
 - (iii) mineral acids are partially ionized
 - (iv) carboxylic acids are partially ionized
 - (a) (i) and (iv)
- (b) (ii) and (iii)
- (c) (i) and (ii)
- (d) (iii) and (iv)
- 10. $N_2 + 3H_2 \rightarrow 2NH_3$ With the reference of above reaction which one of the options in the table is correct?

	Reactants	Products
(a)	N ₂ , H ₂	NH ₃
(b)	NH ₃	N ₂ , H ₂
(c)	N ₂	H ₂ , NH ₃
(d)	N ₂ NH ₃	H ₂

BOARDS GUJCET 11TH - 12TH

FOUNDATION OLYMPIAD (8TH-10TH)

REPEATER (12TH PASS) JEE NEET

MATHEMATICS

- 11. If $A = \{1, 2, 4\}$, $B = \{2, 4, 5\}$, $C = \{2, 5\}$ then $(A - B) \times (B - C)$
 - (a) {(1, 2), (1, 5), (2, 5)}
 - (b) {1, 4}
 - (c) {1, 4}
 - (d) None of these.
- 12. If R is a relation on set $A = \{1, 2, 3, 4, 5, 6, 7, 8\}$ given by xRy \Leftrightarrow y = 3x, then R = ?
 - (a) {(3, 1), (6, 2), (8, 2), (9, 3)}
 - (b) {(3, 1), (6, 2), (9, 3)}
 - (c) {(3, 1), (2, 6), (3, 9)}
 - (d) None of these.
- 13. Let $A = \{1, 2, 3\}, B = \{4, 6, 9\}$ if relation R from A to B defined by x is greater then y. the range of R is -
 - (a) {1, 4, 6, 9}
- (b) {4, 6, 9}

(c) {1}

- (d) None of these.
- 14. The minimum value of $3\cos x + 4\sin x + 8$ is
 - (a) 5

(b) 9

(c) 7

- (d) 3
- 15. What will be the nature of the graph lines of the equations 5x - 2y = 9 and 15x - 6y = 1?
 - (a) Parallel

- (b) Coincident
- (c) Intersecting
- (d) Perpendicular to each other

MENTAL ABILITY

- 16. Which number comes next in the sequence: 2, 4, 6, 8, ?
 - (a) 10

(b) 12

(c) 14

- (d) 16
- 17. If A + B = 10 and A B = 4, what is the value of A?
 - (a) 7

(b) 6

(c) 5

- (d) 4
- 18. Which of the following shapes is not a polygon?
 - (a) Square
- (b) Circle
- (c) Triangle
- (d) Pentagon
- 19. If today is Monday, what day will it be 15 days from now?
 - (a) Tuesday
- (b) Wednesday
- (c) Thursday
- (d) Friday
- 20. Which number is largest: 0.5, 0.75, 0.6, 0.8?
 - (a) 0.5

(b) 0.75

(c) 0.6

(d) 0.8

OUR PRIDE

JEE



MANAV (296/300) AIR 113



RAHUL AIR 313 IIT-DELHI



PRANJAL IIT-ROORKEE



VARDHA



SAUMYA IIT-BHU





SHREYANSH IIT-JODHPUR



NEET



ARYA (690/720) AIR 345 IMS-BHU



ASTHA (659/720)



ADITI (647/720)



DHAIRYA (606/720)









BOARD



98.2%



95%



DIVYA 94.78%



SHREYANSH 94.6%



RAHIII 94%



KHUSHI 93%



DHYFY 92%



TANISHKA 91.06%

10TH BOARD



NISHKA







VEDANT PATEL



AMBER RAI



VEDANT VYAS



YASH PATEL ARYAN PATEL

