



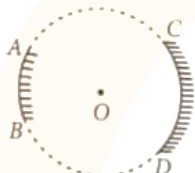
Instructions: Each question carries 4 marks and are only one correct answer type questions.

CLASS – XI (NEET)

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



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	pH
Lemon	2.3
Battery acid	x
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) $9/2$
9. 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_2NH_3	H_2

BIOLOGY

- _____ system is required to supply excretory material to excretory tissue from cells.
 - Digestion
 - Circulatory
 - Absorption
 - Reproduction
- Animals and Fungi are directly or indirectly dependent on _____ for life.
 - Autotrophs
 - Heterotrophs
 - Internal parasites
 - Parasites
- Autotrophs forms _____ from CO₂ and H₂O in presence of chlorophyll and sunlight.
 - protein
 - carbohydrates
 - fats
 - all of the above
- The food is stored in animal body in the form of _____.
 - glucose
 - glycogen
 - galactose
 - glycerol
- The opening and closing of stomata of leaves is done by _____.
 - guard cells
 - dermal cells

- synergid cells
- all of the above

MENTAL ABILITY

- Which number comes next in the sequence: 2, 4, 6, 8, ?
 - 10
 - 12
 - 14
 - 16
- If $A + B = 10$ and $A - B = 4$, what is the value of A?
 - 7
 - 6
 - 5
 - 4
- Which of the following shapes is not a polygon?
 - Square
 - Circle
 - Triangle
 - Pentagon
- If today is Monday, what day will it be 15 days from now?
 - Tuesday
 - Wednesday
 - Thursday
 - Friday
- Which number is largest: 0.5, 0.75, 0.6, 0.8?
 - 0.5
 - 0.75
 - 0.6
 - 0.8

OUR PRIDE

JEE



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(296/300)
AIR 113
IIT-HYD



RAHUL
AIR 313
IIT-DELHI



PRANJAL
IIT-ROORKEE



VARDHA
IIT-PATNA



SAUMYA
IIT-BHU



OM
IIT-ROORKEE



SHREYANSH
IIT-JODHPUR



VIKAS GUPTA
ISM-DHANBAD

NEET



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(690/720)
AIR 345
IMS-BHU



ASTHA
(659/720)



ADITI
(647/720)



DHAIRYA
(606/720)



AVNI
(598/720)



BANSARI
(578/720)



SALONI
(562/720)



KHUSHI
(509/720)

12TH BOARD



ARYA
98.2%



OM
95%



DIVYA
94.78%



SHREYANSH
94.6%



RAHUL
94%



KHUSHI
93%



DHYEY
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TANISHKA
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JYONEET
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