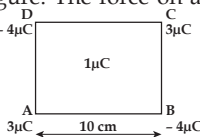




Subject : **PHYSICS**

1. Four point charges are placed at the corners of square ABCD of side 10 cm shown in figure. The force on a charge $1\mu\text{C}$ placed at the centre of-



- (1) 5N (2) 8N
(3) 4N (4) 0

2. The temperature of a cold reservoir of a carnot engine 127°C . If the efficiency of carnot engine is 20%, then the temperature of a hot reservoir is

- (1) 500°C (2) 373°C (3) 227°C (4) 112°C

3. An ideal monoatomic gas expands at constant pressure, the work done by the gas on its environment is 200 J, then the heat absorbed by the gas during the process is

- (1) 300 J (2) 600 J (3) 500 J (4) 200 J

Subject : **CHEMISTRY**

4. The mixture of CO and H_2 is called as,

- (1) Syn gas (2) Water gas
(3) Synthesis gas (4) All the above

5. Among the following methods, which is not a permanent hardness removal?

- (1) Clark's method
(2) Treatment with Washing soda
(3) Calgon's method
(4) Synthetic resin method

6. $2\text{CH}_3-\text{CH}_2-\text{Cl} \xrightarrow{2\text{Na}/\text{Dry ether}}$ A (major product), and the product 'A' is,

- (1) $\text{CH}_3-\text{CH}=\text{CH}-\text{CH}_3$ (2) $\text{CH}_3-\text{CH}-\text{CH}_3 | \text{CH}_3$
(3) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_3$ (4) CH_3-CH_3

Subject : **BOTANY**

7. Which of the following chemical inhibitors are the reason for seed dormancy?

- (i) Abscisic acids (ii) Phenolic acids
(iii) Para-ascorbic acid
(1) (i) only (2) (ii) and (iii)
(3) (iii) and (i) (4) (i), (ii) and (iii)

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8. Choose the correct statement with respect to Respiratory Quotient (RQ)

- (1) RQ will never depend upon the types of respiratory substrate.
(2) When carbohydrates are used as substrate, it cannot completely oxidize
(3) When fats are used in respiration, the RQ is less than 1
(4) When proteins are respiratory substrates the RQ would be more than 1

9. Choose the incorrect statement.

- (1) Enzymes of TCA cycle are present in mitochondrial matrix.
(2) Glycolysis occurs in cytosol.
(3) Oxidative phosphorylation takes place in the outer mitochondrial membrane.
(4) Glycolysis operates if it is supplied with NAD that can pick up hydrogen atoms.

Subject : **ZOOLOGY**

10. Select the correct pair among the following

- (1) Chordates - Dorsal heart
(2) Non-chordates - Gill slits are present
(3) Chondrichthyes - Placoid scales
(4) Agnatha - Bears jaw

11. Backflow of pancreatic secretion is prevented by

- (1) Lower Esophageal Sphincter
(2) Pyloric Sphincter
(3) Ileocecal Sphincter
(4) Sphincter of Oddi

12. Statement-1: In Klinefelter syndrome the resulting Karyotype is 47 XXY.

Statement-2: Klinefelter affected individuals are fertile.

- (1) 1 and 2 are correct.
(2) 1 is correct but 2 is incorrect.
(3) 1 is incorrect but 2 is correct.
(4) 1 and 2 are incorrect.



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