

Q.1 Multiple Choice Questions

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- Which type of carbon-carbon bonds are present in Vanaspati ghee?
a. Single b. double c. triple d. single-double
- The refractive index of water is
a. 1.33 b. 1.36 c. 1.31 d. 1
- If the angle of incidence $\angle i = 0^\circ$ then angle of reflection $\angle r = \dots\dots\dots$
a. 0° b. 90° c. 45° d. 180°

Q.2 Find the odd one out

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- Cyclohexane, Cyclopentane, Iso butane, Cyclopropane
- LPG, CNG, Ethanol, Methanol

Q.3 Match the pair

1

Column "A"	Column "B"
i. C_2H_6	a. Triple bond
ii. C_3H_2	b. Molecular formula of alcohol
	c. Saturated hydrocarbon

Q.4 State True or False(Any One)

1

- Substances that can give oxygen to other substances are called oxidants or oxidizing agents.
- Spectrum of light was first observed by Albert Einstein.

Q.5 Give scientific reasons(Any Two)

4

- Rainbow can be seen at fountains in any season.
- The sky appears dark instead of blue to a person located in space.
- The sun appears reddish early in morning. Explain.
- Stars twinkle at night.

Q.6 Solve Numerical problems.(Any One)

2

- The refractive index of glass with respect to air is ${}_a n_g$ and of a liquid with respect to air is ${}_a n_l$. Express the refractive index of glass with respect to liquid.
- A light ray moves from carbon disulphide ($n_c = \frac{5}{3}$) to glass ($n_g = \frac{3}{2}$) what is the refractive index of glass with respect to carbon disulphide

Q.7 Write Short Notes(Any Two)

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- Characteristics of carbon.

2 Write short note on Structural isomerism.

3 Write short note on Ethanol.

4 Write short note on Refractive index

Q.8 Explain with the help of examples(Any One)

3

1 What is a catalyst ? Write any one reaction which is brought about by use of catalyst ?

2 Explain the following terms with example.

a. Structural isomerism b. Covalent bond c. Hetero atom in a carbon compound

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