

Kastwal National Institute Of Teaching
(KNIT)

(Assignment of class 10th)
Physics

QNo1. Long answers type questions:-

- (I) What is reflection of light? Give the nature, size and position of image formed by a convex mirror?
- (II) What are the 'New Cartesian Sign Convention for spherical mirrors'?

QNo2. Short type questions:-

- I) State laws of reflection of light?
- II) Give the properties of image formed by a plane mirror?
- III) What is a spherical mirror? Give the types of spherical mirrors?
- IV) Relation between focal length and radius of curvature?

QNo3. Very short type questions:

- I) What is light?
- II) What are the characteristics of light?

III) Define Ray?

IV) Define mirror? Define Beam of light and how many beam of light are there?

V. An object is placed at a distance of 10cm from a convex mirror of focal length 15cm. Find the position and nature of the image?

QND4. Multiple type questions:

I) which of the following materials cannot be used to make a lens?

a) water b) Glass c) Plastic d) Clay.

II) A concave lens has a focal length of 20cm. Its power in dioptre is:-

a) +10D b) +5D c) -10D d) -5D

III) A convex mirror produces:-

IV) The mirror used by a dentist is:-

V) Light travels fastest in:->

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Chemistry

QNO1. Long answers type questions:-

I) What do you mean by a chemical equation?
Give an example?

II) What do you mean by a chemical reaction?
Define different types of chemical reaction
with examples?

QNO2 Short answers type questions:

I) What do you mean by exothermic and endothermic reactions? Give examples?

II) Balance the following chemical equation:-

a) Hydrogen gas combines with Nitrogen to form Ammonia?

b) Hydrogen sulphide gas burns in air to give water and sulphur dioxide?

c) Potassium metal reacts with water to give potassium hydroxide and hydrogen gas?

III) Why is it necessary to balance a chemical equation?

Q No 3 Very short answers type questions:-

I) What do you mean by reactants and products in a chemical equation?

II) What do you mean by combination reaction?

III) What do you mean by displacement reaction?

IV) What do you mean by double displacement reaction?

V) Define Dissociation?

Q No 4:- Give the symbols of following elements:-

a) Sodium b) Chlorine c) Neon

d) Scandium e) Chromium

Q No 5:- Fill in the blanks:-

I) Substances on the left side of the chemical equation which take part in the chemical reaction are called _____.

II) When fats and oils get oxidized, they become _____ and their smell and taste change.