

Half Yearly Examination
Class-Xth
Subject- Science

MM: 75

Q.1 Choose the correct answers:

1. General formula of soap is –
(a) R-Co-R (b) R-CooH (c) R-CooNa (d) RCooH
2. The main component of lymph in Lymph vessels is:-
(a) Plasma and W.B.C. (b) Serum and R.B.C. (c) Serum
(d) Plasma and Serum
3. The fuel which has highest calorific value is –
(a) Hydrogen (b) Methane (c) Ethane (d) L.P.G.
4. Safety fuse in domestic electrical device is made up of the substance whose:-
(a) Melting point is low and resistance is more.
(b) Both melting point and resistance should be less.
(c) High melting point and low resistance.
(d) None of these.
5. So I unit of electric potential is:-
(a) Volt (b) Coulomb (c) Weber (d) Newton

Q.2 State True and False:

1. In dispersion deviation of violet colour is maximum and deviation of red colour is minimum ()
2. In D.C. Generator spiral rings are used ()
3. Nuclear energy can be converted to electric energy ()
4. Pure Iron is strong and durable ()
5. Food materials like Garlic, Onion, Egg etc. contain Sulphur.

Q.3 Fill in the blanks

1. Less reactive metals (like, gold, silver) occur in state in nature.
2. Main component of petroleum gas is
3. Electric current is measured by unit.
4. Organic compounds formed by the combination of carbon and hydrogen are called
5. Pitcher plants are an plant.

Q.4 Give one word:-

1. Scientist who explained refraction and working of eye is.
2. Write IUPAC name of Aldehyde.
3. Write the molecular formula of glucose and Fructose.
4. In this defect a person can not clearly see horizontal and vertical lines situated at normal distance simultaneously.
5. How many galaxies are there in the universe.

Q.5 Answers the following questions in very short. (any 4) 2 x 8

1. What is short circuit?
2. What is caoltar?
3. What is annealing?
4. What is serum?
5. Why do objects appear colours?

Q.6 Answer the following questions in short? (Any 5) 5 x 3

1. Why are stars seen twinkling at night.
2. Write any two appliances used in daily life based one thermal effect of electric current.
3. Write the physical difference in between metals and don metals? 4
4. Write the IUBAC have and structured formula of first three members of Alcohol series? 4
5. Write the functions of Kidney? 4

Q.7 Answer the following question in long.

1. Write difference between direct current and alternating current. 5
2. Define nuclear fussion and nuclear fission? Write and four difference between them. 5
3. Explain the mechanism of solar water heater. 5

OR

Describe floting tank type biogas plant with the help of labeled diagram.

Q.8 Write the following questions in detail-

1. What is Ohm Law? Give the verification of Ohm's Law under following heading. 6
(i) Circuit diagram (ii) Observation table (iii) Precautions

OR

What is petroleum. How are its main product.

With labeled diagram. Write the have and one use of each.

Q.9 Explain the structure of human heart. 6

OR

What is the difference between soapued detergent? How are clothes cleaned with a detergent?

OR

Write notes on –

- (i) Denatured Alcohol
- (ii) Aldol condensation
- (iii) Polythene