



Pious Mission School, Arwal

"Practice Examination"

Session : 2020-21

Time : 1 Hrs
F.M : 40M

Sub : Science

Class : X

(Physics)

Q. A) Answer the following questions in very short.

(5)

- 1) What is the S.I. unit of potential difference ?
- 2) Define one coulomb charge.
- 3) Copper is a good _____.
- 4) What are insulators ?
- 5) State the relation between potential difference work done and charge moved.

Q. B) Answer the following question in detail.

(10)

- 1) What do you understand by the term "electric potential" ?
- 2) What is a voltmeter ? How is a voltmeter connected to a circuit ?
- 3) What do you understand by the term potential difference ?
- 4) Calculate the work done in moving a charge of 4 coulomb from a point at 220 volts to another point at 230 volts.
- 5) What is electric current ? Define 1 ampere current.

(Chemistry)

Q. C) Fill in the blanks.

(5)

- 1) Acids have a _____ taste and they turn _____ litmus to _____.
- 2) Those substances whose smell change in acidic or basic solutions are called _____ indicators.
- 3) Neutral substances have a PH of _____.
- 4) Chemical formula of washing soda is _____.
- 5) Common salt is obtained from sea water by the process of _____.

Q. D) Short questions.

(8)

- 1) What type of reaction is represented by the digestion of food in our body ?
- 2) Name the various types of chemical reactions.
- 3) What are antioxidants ?
- 4) Identify the component oxidised in the following reaction :
$$\text{H}_2\text{S} + \text{Cl}_2 \longrightarrow \text{S} + 2\text{HCl}$$
- 5) What is decomposition reaction ?
- 6) Why is respiration considered an exothermic process ?
- 7) On what basis is a chemical equation balanced ?
- 8) Why is photosynthesis considered an endothermic reaction ?

Q. E) Balance the equation.

(2)

- 1) $\text{Na} + \text{O}_2 \longrightarrow \text{Na}_2\text{O}$
- 2) $\text{Fe} + \text{O}_2 \longrightarrow \text{Fe}_2\text{O}_3$

(Biology)

Q. F) Short question answers.

(10)

- 1) Do all cells use oxygen to produce energy ?
- 2) Name one organism which can live without oxygen.
- 3) In which type of respiration, aerobic or anaerobic, more energy is released ?
- 4) Which part of roots is involved in the exchange of respiratory gases ?

- 5) The trachea divides into two tubes at its lower end. What is the name of these tubes ?
- 6) Name two inorganic substance which are used by autotrophs to make food.
- 7) Name the organism each having saprophytic, parasitic and holozoic modes of nutrition.
- 8) Which substances is used to remove chlorophyll from green leaf during photosynthesis experiments ?
- 9) Why do we boil the leaf in alcohol when we are testing it for starch ?
- 10) Name the biological catalysts which bring about chemical digestion of food.