

# HOLIDAY HOME WORK

CLASS-X

SUBJECTS - SCIENCE

Q.1 Draw showing the diagrams of human-

- (a) Digestive system
- (b) Respiratory system
- (c) Excretory system

Q.2 Write 3 example each of the following types of reactions with definition-

- (a) Combination reaction
- (b) Decomposition reaction
- (c) Displacement reaction
- (d) Double displacement reaction
- (e) Oxidation reaction
- (f) Reduction reaction

Q.3 Draw an electric circuit having a battery of 4 cells, a bulb, 4 resistors of 4 Ohm each in series, an ammeter, and a close plug key.

Q.4 Make a ray diagram showing the breakdown of glucose in the presence of oxygen, in the absence of oxygen and in the limited supply of oxygen.

Q.5 A current of 0.5 a is draw by a filament of electric bulb for 10 minutes. Find the amount of electric charge that flows through the circuit.

Q.6 How much work is done in moving a charge of 2c across two point having a potential difference of 12v.

Q.7 An electric iron consumes energy at a rate of 840w when heating is at the maximum rate and 360w when the heating is at minimum. The voltage is 220v. what are the current and resistance in each case?

Q.8 An electric bulb is connected to a 220v generator. The current is 0.50A. What is the power of the bulb?

Q.9 An electric refrigerator rated 400w operates 8hours/day. What is the cost of the energy to operate it for 30 days at Rs 3.00 per kwh?

Q.10 Explain the following

a> Why is the tungsten used almost exclusively for filament of electric lamps?

b> Why is the series arrangement not used for domestic circuits?

c> How does the resistance of a wire vary with its area of cross-section?

d> Why are copper and Aluminium wires usually