

QB365
Important Questions - Life Process
10th Standard CBSE

Science

Reg.No. :

--	--	--	--	--	--

Time : 01:00:00 Hrs

Total Marks : 50

Section - A

- 1) The xylem in plants is responsible for **1**
(a) Transport of water (b) Transport of food (c) Transport of amino acids (d) Transport of oxygen
- 2) When air is blown from mouth into a test-tube containing lime water, the lime water turned milky due to the presence of **1**
(a) oxygen (b) carbon dioxide (c) nitrogen (d) water vapour
- 3) Which is the correct sequence of air passage during inhalation? **1**
(a) Nostrils → larynx → pharynx → trachea → lungs
(b) Nasal passage → trachea → pharynx → larynx → alveoli
(c) Larynx → nostrils → pharynx → lungs
(d) Nostrils → pharynx → larynx → trachea → alveoli
- 4) The blood leaving the tissue becomes richer in **1**
(a) Carbon dioxide (b) Water (c) Haemoglobin (d) Oxygen
- 5) Lack of oxygen in muscles often leads to cramps among cricketers. This results due to **1**
(a) Conversion of pyruvate to ethanol (b) Conversion of pyruvate to glucose
(c) Non conversion of glucose to pyruvate (d) Conversion of pyruvate to lactic acid
- 6) During deficiency of oxygen in tissues of human beings, pyruvic acid is converted into lactic acid in the **1**
(a) Cytoplasm (b) Chloroplast (c) Mitochondria (d) Golgi body
- 7) Transverse folds on the walls of intestine are **1**
(a) Vessels (b) Arteries (c) Veins (d) Villi
- 8) Lymph carries **1**
(a) Digested fats only (b) Absorbed fats only (c) Digested and Absorbed fats (d) Water
- 9) Respiration taking place in absence of oxygen is called **1**
(a) Aerobic respiration (b) Anaerobic respiration (c) both of these (d) none of these
- 10) Which one of the following will decide whether something is alive: **1**
(a) Body structure (b) Movement (c) Cellular organization (d) Both (a) and (b)

Section - B

- 11) What are the difference between autotrophic nutrition and heterotrophic nutrition? **2**

- 12) What are the components of the transport system in human beings? What are the functions of these component? 2
- 13) (a)What are the differences between aerobic and anaerobic respiration? 2
(b)Name some organisms that use the anaerobic mode of respiration.
- 14) What do the following transport? 2
(a)Xylem
(b)Phloem
(c)Pulmonary vein
(d)Pulmonary artery
- 15) Why do fishes die when taken out of water? 2
- 16) Differentiate between an autotroph and a heterotroph. 2
- 17) Differentiate between an artery and vein. 2
- 18) How are oxygen and carbon dioxide transported in human beings? How are lungs designed to maximize the area for exchange of gases? 2
- 19) How 'respiration' different from 'breathing'? Explain the processes of 'aerobic' respiration and 'anaerobic' respiration. 2
- 20) Name the constituents of blood.Why white blood corpuscles are called 'soldiers of the body'? 2

Section - C

- 21) (a)Draw the respiratory system of human beings. 5
(b)Label the following on the diagram drawn: Larynx, Trachea, Primary Bronchus, Lungs
(c)What happens to the carbon dioxide which collects in human tissues?
- 22) How do carbohydrates, proteins and fats get digested in human beings? 5
- 23) Describe the process of urine formation in kidneys. 5
- 24) Explain the process of 'photosynthesis' in plants.List four factors which influence this process and describe how each of them affects the rate of the photosynthesis process. 5
