BIOLOGY

GRADE- X

WORKSHEET

TOPIC: LIFE PROCESSES

**Following questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:**

**(a) Both A and R are true and R is the correct explanation of A.**

**(b) Both A and R are true but R is not the correct explanation of A.**

**(c) A is true but R is false.**

**(d) A is false but R is true.**

**1.Assertion (A) : In anaerobic respiration,one of the end product is alcohol.**

**Reason (R) : There is an incomplete breakdown of glucose.**

**2.(A): Arteries are thick-walled and elastic in nature.**

**Reason (R) : Arteries have to transport blood away from the heart.**

**3.Assertion (A) : Amphibians can tolerate the mixing of oxygenated and deoxygenated blood.**

**Reason(R): They have two chambered hearts .**

**4.What are the products obtained by anaerobic respiration in plants?**

**(a) Lactic acid + Energy**

**(b) Carbon dioxide + Water + Energy**

**(c) Ethanol + Carbon dioxide + Energy**

**(d) Pyruvate**

**5.Single circulation, i.e., blood flows through the heart only once during one cycle of passage through the body, is exhibited by which of the following:**

**(a) hyla, rana, draco**

**(b) whale, dolphin, turtle**

**(c) labeo, chameleon, salamander**

**(d) hippocampus, exocoetus, anabas**

**6.Which part of nephron allows the selective reabsorption of useful substances like glucose, amino acids, salts and water into the blood capillaries?**

**(a) Tubule**

**(b) Glomerulus**

**(c) Bowman’s capsule**

**(d) Ureter**

**7.In which mode of nutrition an organism derives its food from the body of another living organism without killing it?**

**(a) Saprotrophic nutrition**

**(b) Parasitic nutrition**

**(c) Holozoic nutrition**

**(d) Autotrophic nutrition**

**8.The exit of unabsorbed food material is regu-lated by**

**(a) liver**

**(b) anus**

**(c) small intestine**

**(d) anal sphincter**

**9.The part where the exchange of gases occur during respiration**

**a)lungs and larynx**

**b)Alveoli and throat**

**c)Alveoli and capillaries**

**d) bronchi and bronchioles**

**10.A student sets up an experiment to study human respiration using lime water, test tube and a straw. Lime water is colourless in the absence of CO2 and is milky in its presence. The student fills a freshly prepared lime water in a test tube and blows air through straw into the limewater. It was observed that the solution turns cloudy as shown. What can be evaluated from this observation?**

**(a) Oxygen is exhaled during respiration.**

**(b) Water vapours are produced during respiration.**

**(c) Carbon dioxide is exhaled during respiration(d) Glucose is produced during respiration.**

**(d) Glucose is produced during respiration.**