LIFE PROCESSES

REVISION WORKSHEET

CLASS X

SECTION A(1 mark questions)

(A) Multiple Choice Questions

Q1. Which of the following is the correct equation for the summary of photosynthesis

a. $6CO_2 + 12H_2O \longrightarrow C_6H_{12}O_6 + 6O_2 + 6H_2O$
b. $6CO_2 + H_2O$ + sunlight $\longrightarrow C_6H_{12}O_6 + O_2 + 6H_2O$
c. $6CO_2 + 12H_2O$ +chlorophyll+ sunlight $\longrightarrow C_6H_{12}O_6 + 6O_2 + 6H_2O$
d. $6CO_2 + 12H_2O$ chlorophyll+ sunlight $\longrightarrow C_6H_{12}O_6 + 6O_2 + 6H_2O$

Q2. Products of anaerobic respiration in muscles are

a. Lactic acid and energy
b. Lactic acid ,carbon dioxide and energy
c. Lactic acid ,water ,carbon dioxide and energy
d. Lactic acid , water , and energy

Q3. Which of the following statements are true about respiration

a. During inhalation , ribs move inward and diaphragm is raised
b. In alveoli exchange of gases takes place Ie oxygen from blood into alveolar air l
c. Haemoglobin has greater affinity for carbon dioxide than oxygen
d. Alveoli increase the surface area for absorption of gases

i. a & d ii. b & c iii. a & c iv. b & d

Q4. The main function of the urinary bladder is to

a. control the pressure of urine in the urinary bladder
b. take the urine from the kidney to the urinary bladder
c. filter blood and remove the urine
d. connect the parts of the excretory system

(B) Assertion and Reasoning

Direction : in the following questions , a statement of assertion (A) is followed by a statement of reason (R) . Mark the correct choice as :

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

b. **Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A)**
c. **Assertion (A) is true but reason(R) is false**
d. **Assertion (A) is false but reason(R) is true**

Q5. Assertion: aerobic respiration requires less energy as compared to anaerobic respiration .

. Reason : mitochondria is the power house of the cell .

Q6. Assertion: human heart is four chambered .

Reason : vena cava is the only artery that supplies deoxygenated blood to the heart

Q7. Assertion: energy is required to carry on different life processes

Reason : energy is obtained in the form of ATP in mitochondria

(C)Answer very briefly

Q9. _____ enzyme digests starch

Q10. Which is the largest gland in the human body ?

Q11. List a difference between pepsin and trypsin

SECTION B (3 mark questions)

Q12. Name the following :

a. The process in plants that links light energy with chemical energy
b. Organisms that can prepare food on their own
c. The cell organelle where photosynthesis occurs
d. Cells that surround the stomatal pore
e. Organisms that cannot prepare their own food
f. An enzyme secreted from the gastric glands in the stomach that acts on proteins

Q13. How are alveoli designed to maximize the exchange of gases?

Q14. Answer as directed

a. Write two water conducting tissues present in plants ? how does water continuously enter into the root system ?

b. Explain why plants have low energy needs as compared to animals

Q15. Answer as directed

- **a.** What is peristalsis ?
- **b.** What will happen if the diaphragm of a person will get ruptured in an accident ?

Q16. How is aerobic respiration different from anaerobic respiration

SECTION C (5 marks)

Q17. Describe the processes of urine formation in the kidneys

Q18. Draw a sectional view of the human heart and label the following

- **a.** The chamber of the heart that pumps out deoxygenated blood b
- **b.** The blood vessel that carries away oxygenated blood from the heart
- **c.** The blood vessel that rece4ives deoxygenated blood from the lower part of our body
- **d.** Part that prevents the backward flow of blood