WORKSHEET

Biology

Class X

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|  | **1 Mark Questions** |  |
| 1 | Name the tissue that transports water& minerals in plants. |  |
| 2 | Which enzyme in pancreatic juice is effective in digesting proteins? |  |
| 3 | Name the two ways in which glucose is oxidized to provide energy. |  |
| 4 | Name the muscular partition between thoracic and abdominal cavities in mammals. |  |
| 5 | What is the common process both in aerobic and anaerobic respiration? |  |
| 6 | What are the two stages in photosynthesis? |  |
| 7 | Name the largest veins that pour blood in the right atrium in heart? |  |
| 8 | Which of them contains less nitrogenous waste- the renal vein or renal artery? |  |
| 9 | Name the membrane that connects thylakoids of different grana. |  |
| 10 | What is the source of carbon dioxide which plants use during photosynthesis? |  |
| 11 | Name the two biological processes that occur continuously in our body. |  |
| 12 | What is translocation in plants? |  |
| 13 | Ventricles have thicker muscular walls than auricles. Give reason. |  |
| 14 | Rings of cartilage are present in trachea. Why? |  |
| 15 | Define- Ammonotelism, ureotelism and uricotelism. |  |
| 16 | Name the process used by single celled organism for taking food, exchange of gases or removal of wastes. |  |
| 17. | Even when we are not doing any apparent activity, we need energy. Justify with reason. |  |
| 18. | State the basic difference in process of respiration and photosynthesis. |  |
|  | **2 Marks Questions** |  |
| 1. | Explain role of liver in digestion. |  |
| 2. | Why do fish die when taken out of water? |  |
| 3. | List significant features of respiratory surface. |  |
| 4. | What is the role of diaphragm during inhalation and exhalation? |  |
| 5. | Name the end products of digestion of fat and protein. |  |
| 6. | What is gastric juice? Where is it secreted? |  |
| 7. | What is glycolysis? How is this process useful in cells? |  |
| 8. | Why to veins have thin walls than arteries? |  |
| 9. | Write two vital functions of kidney. |  |
| 10. | ‘Respiration is the vital function of body.’ Justify |  |
|  | **3marksquestions** |  |
| 1. | What are the functions of lymph in our body? |  |
| 2. | Describe the structure of heart in human beings. |  |
| 3. | List the significant features of respiratory surface. |  |
| 4. | Explain the structure of chloroplast. |  |
| 5. | List the sequence of events that occur during clotting of blood. |  |
| 6. | Why is photosynthesis regarded as the sole mechanism for the conversion of solar energy into other suitable forms of energy? |  |
| 7. | In each of the situations what happens to the rate of photosynthesis?  (a)Cloudy days (b)No rainfall in the area  (c)Good manuring in the area (d)Stomata get blocked due to dust |  |
| 8. | Name the following:  (a)The process in plants that links light energy with chemical energy.  (b)Organisms that can prepare their own food  (c)The cell organelle where photosynthesis occurs  (d) Cells that surround a stomatal pore  (e) Organisms that cannot prepare their own food  (f) An enzyme secreted from gastric glands in stomach that acts on proteins. |  |
| 9. | Why and how does water enter continuously into the root xylem of plants? |  |
| 10. | What is the role of skin, lungs and intestine in the process of excretion in man? |  |
| 11. | What is ultra filtration? Give the diagram of nephron with proper labels. |  |
| 12. | Draw a diagram to show V.S. of heart for internal structure of heart. |  |
| 13. | What is double circulation? Why is it important for the organisms like birds and mammals? |  |
| 14. | Explain the mechanism of breathing .What are the different coverings present on the lungs? How are the lungs designed for maximum oxygen intake? |  |
| 15. | Explain how excess smoking affects the functioning of the lungs? |  |
|  | **5 marks questions** |  |
|  | Draw a labeled diagram of human respiratory system of man |  |
|  | 1. Draw a labeled diagram of the alimentary canal and associated glands. 2. Add a note on role of pancreas in process of digestion. |  |
|  | Draw a labeled diagram of the excretory system of man. |  |
|  | Draw a labeled diagram of the nephron. Explain the formation of urine. |  |
|  | Explain the of breathing in man. |  |
|  | Discuss the process of photosynthesis under the following heading:  a)Light reaction, b) Dark reaction  Draw a labeled diagram of chloroplast as seen under electron microscope |  |
|  | Describe the flow of blood through the blood vessels. |  |
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