**PMSHRI KENDRIYA VIDYALAYA SAURKHAND**

**HALF YEARLY EXAMINATION - BIOLOGY CLASS 11**

Maximum Marks: 70

Time: 3 Hours

All questions are compulsory.

Answer the questions in the given space.

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| **SECTION A (1 Mark Each)** | | |
| 1 | Which of the following is not a function of the liver?  (a) A. Digestion  (b) B. Detoxification  (c) C. Storage of nutrients  (d) D. Regulation of blood sugar levels | 1 |
| 2 | The process of release of energy from food is called \_\_\_\_\_\_\_\_. | 1 |
| 3 | Which of the following is a fat-soluble vitamin?  (a) A. Vitamin C  (b) B. Vitamin B  (c) C. Vitamin D  (d) D. Vitamin K | 1 |
| 4 | The functional unit of the kidney is called \_\_\_\_\_\_\_\_. | 1 |
| 5 | Which of the following is a plant hormone?  (a) A. Insulin  (b) B. Testosterone  (c) C. Gibberellins  (d) D. Adrenaline | 1 |
| 6 | The process of conversion of light energy into chemical energy is called \_\_\_\_\_\_\_\_. | 1 |
| 7 | Which of the following is a primary lymphoid organ?  (a) A. Spleen  (b) B. Liver  (c) C. Thymus  (d) D. Pancreas | 1 |
| 8 | The fluid portion of blood is called \_\_\_\_\_\_\_\_. | 1 |
| 9 | Which of the following is a waste product excreted by the lungs?  (a) A. Urea  (b) B. Carbon dioxide  (c) C. Bilirubin  (d) D. Creatinine | 1 |
| 10 | The process of breakdown of glucose in the absence of oxygen is called \_\_\_\_\_\_\_\_. | 1 |

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| **SECTION B (2 Marks Each)** | | |
| 11 | Explain the process of photosynthesis in plants. | 2 |
| 12 | What is the role of red blood cells in the human body? | 2 |
| 13 | How do hormones regulate various physiological processes in the body? | 2 |
| 14 | Describe the structure and function of nephrons in the kidney. | 2 |

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| **SECTION C (3 Marks Each)** | | |
| 15 | Explain the process of digestion in humans starting from the mouth to the small intestine. | 3 |
| 16 | Discuss the role of enzymes in various metabolic reactions in the body. | 3 |
| 17 | Explain the concept of homeostasis and provide examples of how it is maintained in the human body. | 3 |
| 18 | Describe the process of respiration in humans including inspiration and expiration. | 3 |
| 19 | Discuss the importance of biodiversity in maintaining ecological balance. | 3 |
| 20 | Explain the process of mitosis and its significance in the growth and development of an organism. | 3 |
| 21 | Discuss the impact of human activities on the environment and suggest measures to mitigate their effects. | 3 |
| 22 | Explain the concept of genetic variation and its role in evolution. | 3 |