**Instructions to Students: Read all the questions thoroughly and write down the answers.**

**This question paper contains a total of 4 parts. They are**

1. **There will be 4 questions. Each question carries 4 marks. Answer all the questions.**
2. **There will be 6 questions. Each question carries 2 marks. Answer all the questions.**
3. **There will be 7 questions. Each question carries 1 mark. Answer all the questions.**
4. **There will be 10 multiple choice questions each question carries ½ mark. Answer all the questions.**
5. **Answer all the questions. Each question carries 4 marks 4 x 4 =16**
6. **Write the differences between the Central nervous system and the Peripheral nervous system.**
7. **What is meant by Circulatory system? Write a note on how it helps organisms.**
8. **Write about the response of plants and animals to stimuli in their surroundings.**
9. **Draw a diagram of cross section of a leaf and identify its parts.**
10. **Answer all the questions. Each question carries 2 marks 6 x 2 =12**
11. **What are the factors necessary for photosynthesis?**
12. **Explain how excretion occurs in amoeba.**
13. **Name the organ that serves the respiratory system and digestive system in the same way?**
14. **With which instrument do we measure Blood Pressure? What is the blood pressure rate for a normal human being?**
15. **What is budding? Explain with an example.**
16. **What are the enzymes that act on proteins and carbohydrates?**
17. **Answer all the questions. Each question carries 1 mark 7 x 1 = 7**
18. **What is meant by Heterotrophic Nutrition?**
19. **What is the transportation system without blood vessels is called?**
20. **What is the functional and structural unit of nervous system?**
21. **Which plant is known as gold wire or Dodder?**
22. **What is the function of Epiglottis?**
23. **What is kidney failure termed as?**
24. **Name any two hormones that promote plant growth.**
25. **Answer all the questions. Each question carries 1/2 mark 10 x 1/2 = 5**

**18. In which reaction does the splitting of water molecule take place?**

1. **Light reaction b. Both Light reaction and Light independent reaction**

**c. The Light independent reaction d. None of the above**

**19. The scientist who has studied the blood circulation is**

1. **Robert Hooke b. William Harvey.**
2. **Marcello Malpighi. d. Pristinely**

**20. How many pairs of spinal nerves are there in our body?**

1. **31 pairs. b. 33 pairs.**
2. **32 pairs. d. 30 pairs.**
3. **How many types of vitamins are there?**
   1. **5 b. 3**
4. **2 d. 1**
5. **What is the form in which the energy released by breakdown of glucose molecule is stored?**
6. **NADPH b. ATP**
7. **ADP d. None of the above**

**23. What is ' lymph ' in Latin?**

* 1. **Blood b. Plasma**
  2. **Pus d. Water**

1. **What does the term "crenere" mean in Latin?**
2. **Separation b. Loosen**
3. **Send Page d. None of the above**
4. **What are the nerves that originate from the brain called?**
5. **Motor nerves b. Sensory nerves**
6. **Spinal nerves d. Cranial nerves**

**26. Who was the scientist who separated the chloroplast from the cell?**

1. **Julian Van Socks b. Joseph Priestley**
2. **Daniel Arron d. Pelletier**

**27. When was the first kidney transplant operation performed in our country?**

1. **1st December, 1971 b. 1st January, 1791**
2. **2nd October, 1791 d. 3rd November, 1971**