

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

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

- I. There will be 4 questions. Each question carries 4 marks. Answer all the questions.**
- II. There will be 6 questions. Each question carries 2 marks. Answer all the questions.**
- III. There will be 7 questions. Each question carries 1 mark. Answer all the questions.**
- IV. There will be 10 multiple choice questions each question carries $\frac{1}{2}$ mark. Answer all the questions.**

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- I. Answer all the questions. Each question carries 4 Marks 4 x 4 = 16**
1. Write the difference between Mitosis and Meiosis?
 2. Draw the diagram and identify the parts that show peristaltic (Oesophagus) movements in a food conductor.
 3. Explain monohybrid experiment with an example. Which law of inheritance can we understand from this experiment?
 4. What is a trophic level? What does it represent in an ecological pyramid?
- II. Answer all the questions. Each question carries 2 Marks. 6 x 2 = 12**
5. What is the meaning of the "afterbirth."?
 6. Which is the strongest acid in the stomach?
 7. How do scientists utilise the information about fossils?
 8. Explain the differences between Mastication and rumination?
 9. Why should we conserve fossil fuels?
 10. Write the name of a strong grassland plant which grows rapidly?
- III. Answer all the questions. Each question carries 1 Marks. 7 x 1 = 7**
11. Which virus is responsible for AIDS disease?
 12. What is hunger?
 13. What is Darwin's theory of natural selection?
 14. In which country were water consumption activities banned?
 15. What are Genes?
 16. What is Eutrophication?
 17. What should be done to save electricity?
- IV. Answer all the questions. Each question carries $\frac{1}{2}$ Marks. 10 x $\frac{1}{2}$ = 5**
18. What are the nerves that take impulses from the central nervous system to different parts of the body?
 - a. Afferent
 - b. Motor nerves
 - c. Correlated nerves
 - d. Nerves

19. Which part of the nervous system controls the activities of internal organs?
a. Nerves, spinal cord b. Spinal cord, heart c. Brain, spinal cord d. None of these
20. The process of fertilization by fusion of gametes is called?
a. Asexual reproduction b. Sexual reproduction c. Pollination d. All
21. Diabetes is related to this gland.
a. Thyroid b. pancreas c. adrenal d. pituitary
22. Factor means?
a. A trait b. The reason for a symptom c. Plant d. None of these
23. How many types of ecology pyramids are there?
a. Two types b. Three types c. Five types d. Four types
24. All organisms together are called?
a. Biotic factors b. Interactions c. Abiotic factors d. None of these
25. The differences in the characteristics of a closely related groups of organisms are called?
a. Similarity b. Heredity c. Variations d. Heredity
26. Which of the following is a green House Gases?
a. CO₂ b. CFCS c. Methane d. All of the above
27. Where is ICRISAT located?
a. Patan Cheruvu b. Metpally c. Basara d. Kesaragutta