

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 ½ mark. Answer all the questions.**

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| I. Answer all the questions. Each question carries 4 Marks | 4 x 4 = 16 |
| <ol style="list-style-type: none">1. Why is the nephron considered to be the structural and functional unit of the kidney?2. Draw a neat diagram to explain about fertilization in plants? Mention Details about pollen grains.3. Distinguish between Photo Chemical phase(Light Reaction) and Biosynthetic phase(Dark Reaction).4. What are endocrine glands? Write down the various hormones secreted by the endocrine glands and their effect. | |
| II. Answer all the questions. Each question carries 2 Marks. | 6 x 2 = 12 |
| <ol style="list-style-type: none">5. What is the role of fibre in the digestive tract?6. What is budding? Write an example.7. How did Minamata disease occur?8. Why do we consider Forests as renewable resources? Explain.9. Make two slogans against child marriages.10. Why do birds migrate? | |
| III. Answer all the questions. Each question carries 1 Marks. | 7 x 1 = 7 |
| <ol style="list-style-type: none">11. What happens if you swallow food without chewing?12. What is biomass?13. Write 2 examples of succulent plants.14. What is the role of stock and scion in grafting?15. Why does the touch-me-not plant shrink when touched?16. What is the major component of urine? | |

17. What is the law of independent assortment? Explain with an example.

IV. Answer all the questions. Each question carries 1/2 Marks. 10 x 1/2 = 5

18. Which area of the human digestive system is acidic?

- a. Small intestine b. Digestion c. Large Intestine d. Mouth

19. What is the meaning of the Gene according to Mendel?

- a. Attribute b. Characteristic c. Allele d. Ancestry

20. Which of the following is an example of an amphibian?

- a. Frog b. Salamander c. Ichthyophis d. All correct

21. Which of the following is an example of animal instinct?

- a. Organizing groups for protection b. Choosing heterogeneity for breeding
c. Birds nesting d. all correct

22. What is the name of liquid part in the chloroplast?

- a. Thylakoids b. Granum c. Stroma d. Stomata

23. In which zone photosynthesis does not happen?

- a. bathyal zone b. euphotic zone c. abyssal zone d. All correct

24. How many types of Ecological Pyramids are there?

- a. 2 types b. 3 types c. 4 types d. 5 types

25. IUCN was established in _____ year.

- a. 1947 b. 1948 c. 1950 d. 1956

26. The term that we use to describe a sperm cell fusing with an egg cell

- a. Fragmentation b. Fermentation c. Fertilisation d. Fusion

27. The region in brain portion that controls hunger signals

- a. Medulla b. Diencephalon c. Cerebrum d. Mid brain