

**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.**

**I. Answer all the questions. Each question carries 4 marks 4 x 4 = 16**

1. What are the three main physical properties of soil? What effects do this have on the plants?
2. Explain Darwin's theory.
3. Describe the impact of a green house effect? How can you reduce its impact?
4. What are the ways to increase food production?

**II. Answer all the questions. Each question carries 2 marks 6 x 2 = 12**

5. What are the precautions to be taken before sowing seeds?
6. What is meant by biological modification? Why is it important to plants?
7. How does the wasp build its nest?
8. What is Bioaccumulation?
9. What is soil pollution? Write a method for controlling soil pollution?
10. What are the advantages of crop rotation?

**III. Answer all the questions. Each question carries 1 mark 7 x 1 = 7**

11. Write Dental Formula.
12. Give an example of nocturnal creatures?
13. What is the universal solvent?
14. What is Palaeontology?
15. Number of baby teeth ?
16. Give examples of succulent plants?
17. Write the sequence of steps in human life cycle

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

18. The nutrients that plants require large amounts of nitrogen, phosphorus and potassium are called \_\_\_\_\_.  
 a. All                                      b. Micro nutrients                      c. Macro nutrients                      d. Rythumithra
19. \_\_\_\_\_ is a fundamental characteristic of animals living in water.  
 a. Large eyes                      b. Brighten                      c. Swimming                      d. Shrinking
20. What is the greatest amount of gas after nitrogen on Earth?  
 a. hydrogen                      b. Argon                      c. O<sub>2</sub>                      d. Co<sub>2</sub>
21. Who is the father of modern genetics?  
 a. Grigar mendal                      b. T.H Morgan                      c. Sattan                      d. A R Vales
22. What is the percentage of salt water in existing water sources?  
 a. 70%                      b. 80%                      c. 90%                      d. 97%
23. Which of the following is not a fossil fuel?  
 a. Coal                      b. Petroleum                      c. Natural Gas                      d. Solar power
24. Metal in liquid state is?  
 a. Ferrous                      b. Mercury                      c. Manganese                      d. Sodium
25. Which of the following is not carbon transformed?  
 a. Coal                      b. Diamond                      c. Zinc                      d. Graphite

26. Which of the following can be used for the ants to seek or provide information?  
a. pheromones      b. Enzymes      c. hormones      d. All are correct
27. Which rays do the ozone layer absorb and prevent from reaching Earth?  
Visual Rays      b. UV rays      c. Infrared rays      d. None

*Pravinnya*  
Nurturing Talent

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