

Total Number of Questions : 32

Time : 3.00 Hours

Max. Marks : 200

1. What are the instruments for measuring wind velocity and wind direction in an Agro-Meteorological observatory ? Mention the importance of wind parameters in agriculture. (2 Marks)
2. What is the difference between extension of demand and increase in demand ? (2 Marks)
3. Define heterosis and list the types of heterosis based on the mode of estimation. (2 Marks)
4. What are the basic functions of communication ? (2 Marks)
5. Describe the classification of fertilizers. (2 Marks)
6. Write a short note on International Monetary Fund (IMF). (4 Marks)
7. Elaborate on gene pool and its types. (4 Marks)
8. What are Plant Growth Regulators (PGRs) ? Comment on the practical applications of auxins and gibberellins in agriculture. (4 Marks)
9. Differentiate between two stroke engine and four stroke engine. Write any four differences. (4 Marks)
10. Define gene cloning. Mention the vectors used for gene cloning. (4 Marks)
11. Explain the fate of applied urea in soil. (5 Marks)
12. Explain the factors causing soil acidity. (5 Marks)
13. Define privatization extension. What are the advantages and disadvantages of privatization extension ? (5 Marks)
14. List down the features of genetic code. (5 Marks)
15. List out the important genera of fungi causing powdery mildew disease of crop plants. Differentiate between powdery mildew and downy mildew. (5 Marks)
16. Describe the procedure for selection of mother palms in coconut. (5 Marks)
17. What are insect pests ? Explain the classification of insect pests. (5 Marks)
18. Write short note on fundamental soil forming process and their characteristics. (7 Marks)
19. Define plant breeding. Explain the various objectives and activities of plant breeding. (7 Marks)
20. Describe the life cycle of wheat black stem rust with a neat diagram. (7 Marks)
21. What is seed dormancy ? What are the types of seed dormancy ? Which are the methods to break dormancy ? (7 Marks)
22. Write short note on predators and parasites. Differentiate predators and parasites with examples. (7 Marks)

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23. Write an essay on importance of agricultural marketing. (10 Marks)
24. Describe the causal organism, symptoms, mode of spread and integrated management of bacterial leaf blight in rice. (10 Marks)
25. Define weathering. Explain physical and chemical weathering process. (10 Marks)
26. Describe the criteria for scheduling irrigation. (10 Marks)
27. Explain the classification of extension teaching methods. Write short notes on three methods each from different categories of extension teaching methods. (10 Marks)
28. What are different sex forms of cucurbits ? What is the role of growth regulators in sex modification of cucurbits ? (10 Marks)
29. Define centres of origin. Differentiate between primary and secondary centres of origin. List out the centres of origin described by Vavilov with examples for each. (10 Marks)
30. Describe the characteristics of insects which have made them dominant species on earth. (10 Marks)
31. Elaborate on the physiological disorders in mango and their control measures. (10 Marks)
32. Elucidate the factors affecting post harvest losses of horticultural produce. (10 Marks)
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