

Total Number of Questions : 20

Time : 2.00 Hours

Max. Marks : 100

1. Why Nano fertilizers are important ? Elaborate Nano urea and Nano DAP with benefits and drawbacks for adoption. (4 Marks)
  2. Elaborate biological weed management and expand with examples. (4 Marks)
  3. Define integrated nutrient management. Briefly explain the importance of Nano fertilizers in agriculture. (4 Marks)
  4. Write about the soil moisture constants and their importance in agriculture for irrigation. (4 Marks)
  5. Write criteria for selection of crops under multi-tier cropping. (4 Marks)
  6. Write the scope and objectives of farming system. (4 Marks)
  7. There is diverse constraints of water in the country for crop production. What common ground do you see in water management in modern and ancient India ? Write in brief. (4 Marks)
  8. Climate change and global warming is a serious concern among the scientists and government. Agricultural scientists are worried about food security and nutritional security. What can be central common working goals of the scientists (all field) to tackle it ? Brief it. (4 Marks)
  9. In-situ and Ex-situ conservation measures – ways helping biodiversity conservation – Discuss. (4 Marks)
  10. Salient features of Forest Conservation Act, 1980 on forest conservation. (4 Marks)
  11. Define carbon farming. How can Kerala achieve carbon neutral farms across the State ? (6 Marks)
  12. Pokkali Rice farming. Appraise its significance. (6 Marks)
  13. Discuss about methods of fertilizer recommendation to crops. (6 Marks)
  14. Discuss the various approaches in scheduling of irrigation. (6 Marks)
  15. Explain in detail the plant interactions occur in intercropping systems. (6 Marks)
  16. Discuss in detail the role of integrated farming system in sustainable agriculture. (6 Marks)
  17. Soil conservation is the burning global issue. Alkalinity, acidity or salt problems in soil is rising. What is the best common method that can be adopted from different measures of soil conservation to decelerate soil degrading process ? Give brief answer. (6 Marks)
  18. How do you interpret the relation between weather and agriculture ? Is there any way to bypass weather for successful agriculture ? Write in brief. (6 Marks)
  19. National Biodiversity Authority – composition and functions. (6 Marks)
  20. Solid waste – the major pollution on earth – its management helps – Elaborate. (6 Marks)
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