

SOIL-122

Most Important Questions

Note:

- 1) These Questions are based on the previous year question papers and New Updated Syllabus.
- 2) Students are required to go through all the topics, but kindly focus on below mentioned Topics/Questions.
- 3) The questions in the exam may be asked in some other way. Eg. Short Notes may asked as Define and vice versa.
- 4) **IMPORTANT:** This document does not guarantee that the exam may contain all topics/questions mentioned below.

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1. Describe in short History of Soil Fertility and Plant Nutritions.
 2. Explain the Role of Soil Fertility in Sustainable Agriculture.
 3. Enlist the Essential Plant Nutrients and explain Criteria for Essentiality of Nutrients.
 4. Which are the Deficiency and Toxicity symptoms of essential plant nutrients.
 5. Any one:
 - a. Which are the Forms of nutrients in soil.
 - b. Explain the critical levels of different nutrients in soil.
 6. Explain Deficiency and Toxicity symptoms of essential plant nutrients.
 7. Write Preparation of (Any one):
 - a. FYM
 - b. Compost
 - c. Vermicompost
 8. Define and explain the concept of Carbon Sequestration and give its types.
 9. Define Chemical Fertilizers and give their classification.
 10. What are Soil Amendments.
 11. Define Nutrient Use Efficiency and explain Factors affecting Nutrient Use Efficiency (NUE).
 12. Explain the properties of Nitrogenous fertilizers.
 13. Give Classification, Composition, Properties of Phosphatic Fertilizers.
 14. Give Classification, Composition, Properties of Potassic Fertilizers.
 15. Give Methods of Fertilizer Recommendations in Crops.
 16. Explain different approaches of Soil Fertility Evaluation in detail.
 17. Explain the Mechanism of nutrient transport to plants.
 18. Explain the Factors affecting nutrient availability to plants.
 19. Write short note on:
 - a. Soil Fertility Evaluation
 - b. Integrated Nutrient Management
 - c. Rapid plant tissue test
 - d. Importance of Manures and Fertilizer
 - e. Methods of Fertilizer Recommendations
 20. Explain the Effect of Secondary and Micronutrient Fertilizers on crop growth.
 21. Explain different methods of Nutrient Applications for crops grown under rainfed and irrigated condition.

22. Full forms:

- a. INM
- b. STCR
- c. RTNM
- d. IPNS

23. Define:

- a. Soil Fertility
- b. Manure
- c. Fertilizer
- d. Complex fertilizer
- e. Oilcakes
- f. FYM
- g. Carbon Sequestration
- h. Carbon Cycle
- i. Compost
- j. Liquid fertilizers
- k. Nanofertilizers



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