B.Voc Even Semester Examination, 2025

FARM MACHINERY & POWER TECHNOLOGY

Course No.: BVAM-601

(Integrated Nutrient Management)

Full Marks: 70

Pass Marks: 28

Time: 3 hours

Note:
1. Attempt any one question from each unit.
2. Begin each answer in a new page
3. Answer parts of a question at a place
4. Assume reasonable data wherever required
5. The figures in the right margin indicate full marks for the question

UNIT-I

1. What is Integrated Nutrient Management (INM)? Discuss its components and significance in modern agriculture. 4+10=14

2. Describe the essential plant nutrients. Classify them and explain their roles in plant growth. 14

UNIT-II

3. What are organic manures? Describe the types, sources, and benefits of using organic manures in crop production. 14

4. Explain the composting process. Discuss various methods of composting and their role in nutrient recycling. 4+10=14

UNIT-III

5. Define biofertilizers. Discuss different types and their roles in sustainable agriculture. 5+9=14

6. What is green manuring? Explain its process, advantages, and commonly used green manure crops. 4+10=14

UNIT-IV

7. Define soil fertility and productivity. Explain the factors affecting soil fertility and how they influence crop production. 14

8. Compare chemical fertilizers and organic sources of nutrients. How can they be balanced under INM for optimum crop productivity? 14

UNIT-V

9. Describe the importance of soil testing. How does it help in nutrient management planning? 14

10. Explain the concept of nutrient use efficiency. Describe the methods to improve it in agricultural practices. 14

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