

This question paper contains 2 printed pages]

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S. No. of Question Paper : 1526

Unique Paper Code : 217271

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Name of the Paper : Soils and Fertilizers—(Paper-7)

Name of the Course : B.Sc. (Prog.) Agro-Chemicals and Pest Control

Semester : II

Duration : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Answer Five questions out of the following.

All questions carry equal marks.

1. Write the detailed notes on : 15
Soil texture and Soil Horizons.
2. (a) What do you mean by Bio-fertilizers ? 3
(b) Give the uses of Bio-fertilizers and discuss their advantages over chemical fertilizers. 6
(c) Explain with examples, the residual effect of fertilizers on soil. 6
3. (a) Give the detailed classification of phosphate fertilizers with suitable examples. 13
(b) In which form the plants uptake the phosphorous ? 2
4. (a) Give the detailed classification of nitrogen fertilizers with suitable examples. 13
(b) In which form nitrogen is taken by plants ? 2

P.T.O.

5. (a) What do you mean by macronutrients and micronutrient for plants ? List them all. 9
(b) Discuss the role of any *three* micronutrients in plant growth. 6
6. (a) Give the detailed classification of potash fertilizers. Also explain the role of potassium in plant growth. 10
(b) Residue effect of fertilizers. 5
7. Write short notes on any *two* of the following : 2×7½
- (a) Nitrification and denitrification
 - (b) Residual effect of fertilizers
 - (c) Nitrogen cycle
 - (d) Immobilization and mineralization of soil nitrogen.