

School of Agriculture

Bachelor of Science Honours in Agriculture
Semester End Examination - Jul 2024

Duration : 180 Minutes
Max Marks : 100

Sem IV - A1UA410T - Problematic Soils and their Management

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

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| 1) | Compare soil fertility and Soil productivity. | K1(2) |
| 2) | Explain, how water logging causes problems in soil. | K2(4) |
| 3) | Outline the sources of the acidity in the soil. | K2(6) |
| 4) | How would you solve the problem of salinity of the soil? Explain. | K3(9) |
| 5) | How would you solve the problem soil erosion by water? | K3(9) |
| 6) | What is your opinion to replace chemical fertilizers with bio-fertilizers for the management of soil health? | K5(10) |
| 7) | What conclusion can be drawn about the effect of submergence on the availability of essential nutrients for plant growth? | K4(12) |
| 8) | Criticise the impacts of agro-chemicals on soil properties and give details of their alternatives. | K5(15) |
| 9) | How would you judge the economic impacts of soil erosion on agricultural yields, input costs, soil health, and farm profitability? | K5(15) |
| 10) | Compose guidelines for the assessment of irrigation water quality and standards, incorporating parameters such as salinity hazards, sodium hazard, chloride concentration, magnesium hazard and nitrate concentration. | K6(18) |