

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

School of Agriculture
Master of Science in Agronomy
Semester End Examination - Jun 2024

Duration : 180 Minutes

Max Marks : 100

Sem II - A1PB201B - Principal and Practices of Soil Fertility and Nutrient 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

- 1) Find the role of soil organisms play in soil fertility. K1 (2)
- 2) Explain the function and deficiency symptoms of calcium in plant. K2 (4)
- 3) Illustrate the impact of application of farmyard manure on soil structure, moisture retention, and overall soil fertility over the long term. K2 (6)
- 4) Construct the innovative approaches or technologies for the conversion of agricultural residues, such as crop stalks and straw, into value-added products for soil enrichment and crop nutrition. K3 (9)
- 5) Construct the potential environmental benefits associated with the utilization of organic wastes as biofertilizers in agriculture. K3 (9)
- 6) Appraise the classification of biofertilizers. K5 (10)
- 7) Examine the some innovative methods or technologies available for increasing fertilizer use efficiency in agriculture. K4 (12)
- 8) Interpret the primary components of commercial fertilizers, and how does the composition vary among different types of fertilizer. K5 (15)
- 9) Justify the agronomic practices and management strategies that contribute to improved fertilizer use efficiency and nutrient utilization in crop production systems. K5 (15)
- 10) Elaborate INM and the potential benefits of adopting an integrated approach to nutrient management in agriculture. K6 (18)