GALGOTIAS UNIVERSITY

ADMISSION NUMBER

School of Agriculture

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

Duration : 180 Minutes
Max Marks : 100

Sem IV - A1UA410T - AGRI2013 - 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

1)	Compare soil quality and soil health in brief.	K1(2)
2)	Interpret the role of land degradation in reducing srop productivity.	K2(4)
3)	Summarize the sources of salts in the soil and their effects.	K2(6)
4)	How would you solve the problem of soil alkalinity with the help of various chemical ameliorant?	K3(9)
5)	How would you solve the problem of acid sulfate soils by using various management practices?	K3(9)
6)	What criteria indicate soil compaction, hindering root penetration and water infiltration?	K5(10)
7)	Distinguish between the roles of nitrogen-fixing trees, deep-rooted trees, and phytoremediators in soil bio-remediation processes.	K4(12)
8)	Determine the Sulphur, sulphuric acid and limestone equivalence of gypsum for the management of sodic soil.	K5(15)
9)	Justify, the implementation of conservation tillage practices as an effective strategy for reducing soil erosion while maintaining soil health and productivity.	K5(15)
10)	Create a comprehensive plan for the management of flooded soils, elaborating on strategies for water drainage, soil aeration, and crop selection to mitigate damage and enhance productivity.	K6(18)