

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester : IV (New)	Term : Second	Academic Year : 2022-23
Course No. : SSAC 242	Title : Problematic Soils and their Management	
Credits : 2 (1+1)		
Day & Date : Friday, 14.07.2023	Time : 09:00 to 11:00 hrs.	Total Marks : 40

- Note :**
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 Define degraded soil. Write in short about types of soil degradation.
- Q.2 Define soil quality. Discuss about different soil quality indicators.
- Q.3 Define saline soil. Describe the management practices of saline soil.
- Q.4 Define coastal saline soils. State the problems of coastal saline soil.
- Q.5 How are acid sulphate soils formed?
- Q.6 What are the characteristics of calcareous soil? How do calcareous soils affect plant growth?
- Q.7 Define soil erosion. Give the factors causing soil erosion.
- Q.8 Describe the effect of submergence on plant growth.
- Q.9 What is pollution? Write in brief about the kinds of soil pollutants.
- Q.10 What is quality irrigation water? Describe the management practices of soil under saline water irrigation.

SECTION 'B'

- Q.11 Define the following terms:

- 1) Soil health
- 2) Soil pollution
- 3) Phytoremediation
- 4) Remote sensing

- Q.12 State True or False:

- 1) Deforestation reduces the soil erosion process.
- 2) Saline soil is having pH greater than 8.5.
- 3) Lime is used for reclamation of acidic soil.
- 4) More availability of nutrient is in neutral pH range.

