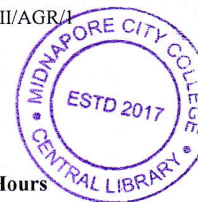


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M.Sc. Semester-III Examination, 2022
 (Agriculture) in Agronomy
 PAPER: ACSS-301 (Theory)
(MANAGEMENT OF PROBLEM SOILS)



Full Marks: 50

Time: 2 Hours

GROUP-A

- 1. Answer any FIVE questions from the following:** **2X5 = 10**
- a. What do you understand by problem soils?
 - b. Name the different types of problematic soils.
 - c. Which type of salts are dominated in saline soils?
 - d. Which parameter will help us to determine that the soil is saline? Also write the value for same.
 - e. Which nutrient toxicity is more in sodic soil?
 - f. Differ alkaline soil and alkali soil.
 - g. Which environmental condition will help to form saline soil?
 - h. Discuss the buffering capacity of soil.

GROUP-B

- 2. Answer any FOUR questions from the following:** **5X4 = 20**
- a. Write the distribution of acid soils in India.
 - b. Discuss how liming material reclaim acid soils?
 - c. "Saline soil is also called white alkali"- Explain.
 - d. Why gypsum is not considered as liming material in acid soil?
 - e. Discuss any four beneficial effects of liming.
 - f. Enlist any four characters in acid soils.
 - g. "Saline soils have poor water absorption" – Explain.
 - h. Give an example of acidic salt formation with reaction.

GROUP-C

- 3. Answer any TWO questions from the following:** **10X2 = 20**
- a. Discuss the causes of acidity in soil. 10
 - b. Explain the problems in acid soils. Discuss the principle of liming reaction in acid soil. 10
 - c. "Alkali soil has very poor physical condition"- Explain. 10
 - d. Differentiate between saline, alkali and saline –alkali soil. Discuss the biological reclamation process in saline soil. 4+6
 - e. Discuss the reclamation of sodic soil. 10
