

School of Agriculture

Agriculture
ETE - Jun 2023

Time : 3 Hours

Marks : 100

Sem IV - A1UA410T /AGRI2013/A1UA410B

Problematic Soils and Their Management

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

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| 1. | Define soil quality and soil health | K1 CO1 (5) |
| 2. | List out the importance of soil quality | K1 CO1 (5) |
| 3. | Explain acid sulphate soil and its characteristics | K2 CO1 (5) |
| 4. | Identify factor affecting soil compaction and its effect | K2 CO1 (10) |
| 5. | Select the agronomical management practices for efficient use of saline water in agriculture | K3 CO2 (10) |
| 6) | Examine about salinity and alkalinity hazards in irrigation water quality | K4 CO5 (10) |

OR

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| | Examine yield prediction forecasting by use of remote sensing techniques | K4 CO5 (10) |
| 7. | Identify the criteria on lime requirements and benefits of liming | K3 CO2 (10) |
| 8. | Analyze irrigation water quality and its factors. Write the criteria of irrigation water quality for use in agriculture | K4 CO3 (15) |
| 9) | Importance of application GIS techniques in agriculture | K5 CO4 (15) |

OR

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| | Simplify land capability classification and its important. | K5 CO4 (15) |
| 10. | Select how waste land and problematic soils are distributed in India | K3 CO2 (15) |