

School of Agriculture**Bachelor of Science Honours in Agriculture
Semester End Examination - Aug 2024****Duration : 180 Minutes
Max Marks : 100****Sem I - A1UA107B - Fundamentals of Soil Science***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*

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| 1) | Write the name of any two sedimentary rocks | K1(2) |
| 2) | Explain soil organic matter and its important for soil. | K2(4) |
| 3) | Illustrate Physical/Mechanical methods of weathering | K2(6) |
| 4) | Construct a model to demonstrate how climate, parent material, organisms, topography, and time collectively influence soil development in a particular region? | K3(9) |
| 5) | Develop a comprehensive guide for gardeners on how to make use of earthworms to enhance soil fertility and structure. Include instructions on vermicomposting and its benefits. | K3(9) |
| 6) | How the evaluation of soil fertility is done after soil sampling?
Explain the benefits of soil testing | K5(10) |
| 7) | Examine the factors responsible for the formation of salt affected soils in detail. | K4(12) |
| 8) | How would you determine soil texture in laboratory? Also mention why it is important to study soil texture in agriculture? | K5(15) |
| 9) | Criticize the use of synthetic fertilizers in agriculture and assess their long-term effects on soil quality and ecosystem sustainability. | K5(15) |
| 10) | Elaborate various active and passive factors of soil formation. | K6(18) |