

## School of Agriculture

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

Duration : 180 Minutes  
Max Marks : 100

### Sem II - A1UA203B - AGRI1014 - Soil and Water Conservation Engineering

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)  | Choose the relationship between soil erosion and agriculture.                                      | K1(2)  |
| 2)  | Explain the soil erosion affect water quality.   | K2(4)  |
| 3)  | Illustrate the impact of wind erosion on agricultural productivity.                                | K2(6)  |
| 4)  | Construct the effectiveness of erosion control structures in reducing water erosion.               | K3(9)  |
| 5)  | Construct the soil condition and bunding options for in situ moisture conservation.                | K3(9)  |
| 6)  | Evaluate the effectiveness of contouring as an erosion control technique in hilly terrain.         | K5(10) |
| 7)  | Examine the role of sediment transport in water erosion.   | K4(12) |
| 8)  | Determine the how contour bunds reduce soil erosion.   | K5(15) |
| 9)  | Assess the differences between saltation and suspension as types of soil movement in wind erosion. | K5(15) |
| 10) | Design a comprehensive grassed waterway system for a large agricultural watershed.                 | K6(18) |