

**Section-D**

No. of Printed Pages : 4  
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**Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)**

- Q.23 Describe the permanent structures for control of erosion. Explain principle and constructional feature of Drop Spillway. (CO3)
- Q.24 Describe the problem of water logging with its causes, effects and management. (CO6)
- Q25 Explain the mechanics of water erosion and the factors affecting erosion by water. (CO2)

**4th Sem / Agriculture Engg.  
Subject : Soil & Water Conservation**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note: Multiple type Questions. All Questions are compulsory. (6x1=6)**

- Q.1 Soil erosion can be reduced by (CO3)
- a) Planting trees                      b) Making Dams  
c) Reducing over grazing      d) All of these
- Q.2 Erosion of fine particles is seen on account of (CO2)
- a) Suspension                      b) Saltation  
c) Shifting of dunes              d) Surface creep
- Q.3 The prevention of loss of the topmost layer of soil from erosion. (CO3)
- a) Soil conservation              b) Water conservation  
c) Water logging                  d) None of these
- Q.4 Soil particle arrangement is referred to as (CO1)
- a) Soil organization              b) Soil structure  
c) Soil texture                      d) Field capacity

- Q.5 The degree of saturation of the soil exchange complex with sodium is (CO5)
- Electrical conductivity
  - Exchangeable sodium percentage
  - Hydraulic conductivity
  - None of these
- Q.6 The removal of excess water either from the ground surface or from the root zone (CO6)
- Water logging
  - Drainage
  - Reclamation
  - None of these

### Section-B

**Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)**

- Q.7 Define Strip cropping. (CO3)
- Q.8 Define surface creep. (CO2)
- Q.9 ESP stands for \_\_\_\_\_. (CO5)
- Q.10 Write the formula of Bulk Density. (CO1)
- Q.11 Define Water harvesting. (CO4)
- Q.12 Define soil erosion. (CO6)

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### Section-C

**Note: Short answer type Question. Attempt any eight questions out of ten Questions. (8x4=32)**

- Q.13 What are the vegetated water ways to control erosion? (CO3)
- Q.14 What are different types of terraces? Explain any one. (CO3)
- Q.15 What is the difference between Geological and accelerated erosion. (CO2)
- Q.16 What are the reasons and factors of formation of Saline soils. (CO5)
- Q.17 Differentiate surface and sub-surface drainage. (CO6)
- Q.18 Describe the need and scope of water harvesting. (CO4)
- Q.19 What is soil separates? Give one classification of soil separates. (CO1)
- Q.20 Describe surface drainage system for water logged soils. (CO6)
- Q.21 Write a short note on ground water recharge and watershed management. (CO4)
- Q.22 Describe the gravimetric methods of moisture content determination. (CO1)

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