

Q.22 What are different methods of ground water recharge. (CO4)

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### SECTION-D

**Note: Long answer questions. Attempt any two questions out of three Questions. (2x8=16)**

Q.23 Describe the problem of water logging with its causes, effects and management. (CO6)

Q.24 Describe the temporary structures for control of erosion. Explain their types and adaptability. (CO3)

Q.25 a) Describe the process of raindrop erosion and sheet erosion. (CO2)

b) Describes soil structure and factors affecting it. (CO1)

**4th Sem.**  
**Branch : Agriculture**  
**Sub. Soil & Water Conservation**

**Time : 3 Hrs.**

**M.M. : 60**

### SECTION-A

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

Q.1 The method for controlling water erosion are (CO3)

- a) Contour cultivation      b) Cropping system
- c) Tillage practices      d) All of these

Q.2 The removal of excess water below the ground surface (CO6)

- a) Water logging      b) Drainage
- c) Reclamation      d) Subsurface drainage

Q.3 The collection of rainwater for future use is (CO4)

- a) Water harvesting      b) Runoff
- c) Infiltration      d) None of these

- Q.4 The ratio of volume of pores to the total soil volume (CO1)
- a) Saturation                      b) Porosity
- c) Void ratio                        c) Field capacity
- Q.5 Alkali soils can be reclaimed by (CO5)
- a) Gypsum                            b) Sulphur
- c) Manuring                         d) All of these
- Q.6 Very fine particles less than 0.1mm are moved through (CO2)
- a) Suspension                      b) Saltation
- c) Shifting of dunes                d) Surface creep

### SECTION-B

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

- Q.7 Define Field Capacity. (CO1)
- Q.8 Define Sheet erosion. (CO2)
- Q.9 Define terracing. (CO3)
- Q.10 What is surface drainage? (CO6)

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- Q.11 Define acidic soil. (CO5)
- Q.12 Define tank harvesting. (CO4)

### SECTION-C

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

- Q.13 Define soil separates and give their classification. (CO1)
- Q.14 Describe the field practices to control wind erosion. (CO3)
- Q.15 Describe gravimetric method of soil moisture measurement. (CO1)
- Q.16 Describe reclamation of acidic soils. (CO5)
- Q.17 What are various constituents of soil? (CO1)
- Q.18 Describe the principle of gully erosion. (CO4)
- Q.19 Give the reasons and factors of formation of alkaline soils. (CO2)
- Q.20 Explain mechanical methods to control erosion by water. (CO6)
- Q.21 What are different types of drainage systems? (CO4)

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