

SECTION-D

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

- Q.23 a) Describe the temporary structures for control of erosion. Explain their types and adaptability. (CO3)
- b) Describe about different types of surface drains. (CO6)
- Q.24 a) What are the effects of salinity, alkalinity and acidity on plant growth. (CO5)
- b) Define bulk density and retentive capacity of soils. (CO1)
- Q.25 Describe the mechanics of water erosion in detail. Also state the effects of water erosion. (CO2)

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Roll No.

4th Semester/ Agriculture Subject : Soil & Water Conservation

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 The amount of soil moisture held in the soil after excess water has drained away. (CO1)
- a) Saturation b) Porosity
- c) Void ratio d) Field capacity
- Q.2 The removal of soil in the form of thin layer by the flowing water from a given width of sloping land. (CO2)
- a) Raindrop erosion b) Sheet erosion
- c) Rill erosion d) Gully erosion
- Q.3 The soil conservation practice to control erosion in hilly areas. (CO3)
- a) Terracing b) Contour farming
- c) Trenching d) Stone terracing

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Q.4 Acidic soils can be reclaimed by (CO5)

- a) HNO_3 b) H_2SO_4
c) CaCO_3 d) CaSO_4

Q.5 An obstruction or barrier, constructed across the river to retain water for making big water body. (CO4)

- a) Farm pond
b) Earthen embankment
c) Trenching
d) Stone terracing

Q.6 A condition in which the water table is located at or near the subsurface. (CO6)

- a) Drainage b) Harvesting
c) Permeability d) Water logging

SECTION-B

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

Q.7 Define Soil permeability. (CO1)

Q.8 Define Raindrop erosion. (CO2)

Q.9 Define contour trenching. (CO3)

Q.10 What is surface drainage? (CO6)

Q.11 SAR stands for _____. (CO5)

Q.12 Define farm pond. (CO4)

SECTION-C

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

Q.13 Define soil structure. What are the factors affecting soil structure? (CO1)

Q.14 What are the agronomical measures to control erosion? (CO3)

Q.15 What are the factors affecting erosion by water? (CO2)

Q.16 What are different methods of water harvesting. (CO4)

Q.17 Give the reasons and factors of formation of alkaline soils. (CO5)

Q.18 What are different methods of surface drainage? (CO6)

Q.19 Describe the classification of gullies. (CO3)

Q.20 Describe gravimetric method of soil moisture measurement? (CO1)

Q.21 Give classification of erosion. (CO2)

Q.22 Describe reclamation of acidic soils. (CO5)