

- Q.26 Discuss in brief the mechanics of wind erosion.
- Q.27 Describe the different methods of water harvesting.
- Q.28 Define drainage and what are the different drainage properties of soil.
- Q.29 Describe different types of Bench Terraces.
- Q.30 How the soils acts as a medium of plant growth?
- Q.31 Write a short note on chute spillways for the control of erosion.
- Q.32 What are the different reasons for the formation of saline, alkaline and acid soil?
- Q.33 Discuss the soil conservation through tree and grass cultivation.
- Q.34 What are the different effects of water logging?
- Q.35 Enlist different chemical properties of soil and describe any one of them.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the principle of gully erosion and give the detailed classification of gullies.
- Q.37 Explain the mechanics of water Erosion and the factors affecting erosion by water.
- Q.38 Write a detailed note on the problem of water logging. Describe its causes, effects and management.

No. of Printed Pages : 4 180135/120135/030135
 Roll No.

3rd Sem / Agri.
Subject:- Soil and Water Conservation / Soil Conserv.

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following soil is non-plastic
 a) Sand b) Silt
 c) Silty Clay d) Clay
- Q.2 Which of the factor does not affect the wind erosion
 a) Soil texture
 b) Moisture content of soil
 c) Land gradient
 d) Soil structure
- Q.3 Acid soils can be reclaimed by
 a) CaCO₃ b) CaSO₄·2 H₂O
 c) H₂SO₄ d) HNO₃
- Q.4 Arrangement of soil particles is referred to as
 a) Soil Texture b) Soil Structure
 c) Soil organization d) None of the above

- Q.5 Erosion of very fine particles is seen on account of
a) Saltation b) Suspension
c) Surface creep d) Shifting of dunes
- Q.6 Soil erosion can be reduced by :
a) Reducing over grazing
b) Planting proper plants
c) Making dams
d) All of those
- Q.7 Gully erosion is the last phase of
a) Sheet erosion b) Rill erosion
c) Normal erosion d) Stream bank erosion
- Q.8 Contour bunding is done to check
a) Rain drop erosion b) Rill erosion
c) Sheet erosion d) Gully erosion
- Q.9 Darcy's Law is applicable when Renolds number is
a) Equal to 1 b) More than 1
c) Less than 1 d) Less than 2
- Q.10 Graded terraces are used in the area of
a) Medium to high rainfall
b) High rainfall only
c) Medium rainfall only
d) None of these

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Define Soil separates.
Q.12 Name any two chemicals properties of soil.
Q.13 Define Contour farming.
Q.14 Name any two types of water erosion.
Q.15 ECE stands for _____
Q.16 Define Soil reaction (pH)
Q.17 Agronomical and _____ are used to control erosion by wind and water.
Q.18 Define soil permeability.
Q.19 Define Particle Density.
Q.20 Collection and storage of rain water is a _____ technique.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Discuss the vegetated water ways in erosion control.
Q.22 Explain the Darcy's Law in detail.
Q.23 What are the after effects of water erosion?
Q.24 How the contour farming and strip cropping control the erosion by wind and water?
Q.25 Describe the different types of soil structure.