

- Q.25 What are chemical properties of soil? Give their importance with suitable example.

Q.26 What are the factors affecting soil structure?

Q.27 Define soil permeability and its importance.

Q.28 Describe reclamation of alkali soils.

Q.29 What are the health hazards of water logged soils?

Q.30 What are the methods of ground water recharge?

Q.31 Write a note on the role of vegetated water ways to check erosion.

Q.32 What is the need, importance and scope of water harvesting?

Q.33 What are the benefits of drainage?

Q.34 What are different methods of soil moisture determination? Explain any one in detail.

Q.35 Describe the mechanics of wind erosion.

SECTION-D

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

- Q.36 Describe the permanent structures for control of erosion. Explain their types and adaptability.

Q.37 Explain the principles, adaptability and constructional features of Chute spillway.

Q.38 Describe the causes, effects and management of water logging.

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

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SECTION-A

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

- Q.1 The uniform removal of soil in thin layers from sloping land

 - a) Rill erosion
 - b) Sheet erosion
 - c) Gully erosion
 - d) Raindrop erosion

Q.2 The movement of fine particles is called

 - a) Saltation
 - b) Suspension
 - c) Surface creep
 - d) None of these

Q.3 The characteristics of soil at various moisture contents when influenced by physical forces of cohesion & adhesion

 - a) Porosity
 - b) Void ratio
 - c) Particle density
 - d) Soil consistency

Q.4 The erosion that takes place under natural cover

 - a) Rill erosion
 - b) Sheet erosion
 - c) Geological erosion
 - d) Accelerated erosion

- Q.5 The moisture content of soil after gravitational water is drained.
- a) Available water b) Saturation
c) Field capacity d) Drainage
- Q.6 Which soil has low water retaining capacity
- a) Silt b) Sand
c) Clay d) Loam
- Q.7 Darcy's law is applicable when Reynolds number is
- a) Equal to 1 b) More than 1
c) Less than 1 d) Less than 2
- Q.8 The arrangement of soil according to grain size is
- a) Soil Texture b) Soil structure
c) Soil separates d) Soil consistency
- Q.9 Graded terraces are used in areas of
- a) High rainfall only
b) Medium to High rainfall
c) Medium rainfall only
d) None of these
- Q.10 The terrace used to divide a steep sloping land into a series of level or nearly level strips or benches running across the slopes.
- a) Ridge terrace b) Channel terrace
c) Bench terrace d) Broad base terrace

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define wilting point.
Q.12 Define Coefficient of permeability.
Q.13 ESP stands for _____
Q.14 Define watershed.
Q.15 Define soil aeration.
Q.16 Define porosity.
Q.17 Define degree of saturation.
Q.18 Define contour farming.
Q.19 What is watershed management?
Q.20 Write the formula of bulk density.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What is soil texture? Give USDA classification of soil texture.
Q.22 What is the difference between raindrop and sheet erosion?
Q.23 Explain Agronomic and field practices to control erosion by water.
Q.24 Name various constituents of soil and their importance.