

- Q.5 Darcy's Law is applicable when Renolds number is
- Equal to 1
 - More than 1
 - Less than 1
 - Less than 2
- Q.6 Cation exchange capacity is expressed as
- Mole / Litre
 - Percent
 - Meq / Litre
 - Meq / 100g
- Q.7 Forest prevent soil erosion by binding soil particles in their
- Leaves
 - Roots
 - Buds
 - Stems
- Q.8 Bunds, dams and drains are constructed to prevent
- Gully erosion
 - Steam bank erosion
 - Sheet erosion
 - Slip erosion
- Q.9 Contour trenches are constructed
- On contour of the land
 - Not on the contour of the land
 - Along the slope
 - All are correct
- Q.10 Chute spillways are used at
- Mild slope
 - Steep slope
 - Both a & b
 - None of these

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SECTION-B

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

- Q.11 Define porosity
- Q.12 Write the formula of Bulk Density
- Q.13 Define Field Capacity
- Q.14 Define Reclamation
- Q.15 State permanent wilting point
- Q.16 Define Drainage coefficient
- Q.17 Write the formula of Void Ratio
- Q.18 ESP Stands for _____
- Q.19 Define Soil Reaction (pH)
- Q.20 Define Soil Erosion

SECTION-C

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

- Q.21 Name the various constituents of soil and their importance.
- Q.22 Define soil permeability and its importance
- Q.23 Differentiate Tile Drain and Mole Drains
- Q.24 What are the different methods of Soil moisture determination? Explain any one in brief
- Q.25 Describe the Darcy's Law in detail
- Q.26 Differentiate between surface and sub-surface drainage

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