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203CV005

Ph.D./M.S. (Engg.) by Research Degree Examination, Nov./Dec. 2024

Watershed Conservation Management

Time: 3 hrs. Max. Marks: 100

Note: ***Answer any FIVE full questions, choosing ONE full question from each module.***

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-1

1 a. Explain classification and components of a Watershed. **(10 Marks)**
b. Explain Basic factors influencing watershed development. **(10 Marks)**

OR

2 a. Explain various characteristics of watershed. **(10 Marks)**
b. Explain Codification of watershed. **(10 Marks)**

Module-2

3 a. Explain Soil – Conservation Measures. **(10 Marks)**
b. Explain different types of Soil erosion. **(10 Marks)**

OR

4 a. Explain estimation of Soil erosion. **(10 Marks)**
b. Explain any two Soil Loss models. **(10 Marks)**

Module-3

5 a. Explain different types of storage structures. **(10 Marks)**
b. Explain Water Conservation Methods. **(10 Marks)**

OR

6 a. Explain Roof Water Harvesting with a neat sketch. **(10 Marks)**
b. Explain any two Artificial Recharge methods. **(10 Marks)**

Module-4

7 a. Explain various steps in Watershed Management Project Proposal Formulation. **(10 Marks)**
b. Explain Watershed Development Plan. **(10 Marks)**

OR

8 a. Explain briefly : i) Grass Land Management and ii) Waste Land Management. **(10 Marks)**
b. Explain about Evaluation of Watershed Management. **(10 Marks)**

Module-5

9 a. Explain Methodology of planning a Watershed Management. **(10 Marks)**
b. Explain identification of Watershed problems. **(10 Marks)**

OR

10 a. Explain Socio – Economic issues in Watershed Management. **(10 Marks)**
b. Explain any one application of RS and GIS in Watershed Management. **(10 Marks)**

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