



**ELECTIVE - I**  
**Water Shed Management**  
**(New) (1252)**

**P. Pages : 2**

**Time : Three Hours**

**Max. Marks :100**

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Solve **any two** questions from each unit.

**UNIT - I**

1. Explain watershed characteristics in detail. **10**
2. Explain the concept of watershed management in civil Engg. **10**
3. Explain network and channel morphology in detail. **10**

**UNIT - II**

4. Explain concept of hydrological cycle with sketches. **10**
5. Explain about water balance with suitable examples. **10**
6. Explain stream flow and run off. **10**

**UNIT - III**

7. Explain land capability classification. **10**
8. Describe in detail watershed resources Appraisal. **10**
9. Describe objectives of watershed management. **10**

**UNIT - IV**

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|-----|---|----|
| 10. | Describe waste water treatment and septic system. | 10 |
| 11. | Describe soil conservation measures.              | 10 |
| 12. | Explain point and non point source pollution.     | 10 |

**UNIT - V**

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|-----|--|----|
| 13  | Describe green roof and goals of Urban watershed management. | 10 |
| 14. | Explain Urban rain water harvesting.                         | 10 |
| 15. | Explain storm water pollution abatement technologies.        | 10 |

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