

Second Year, Term 5 End Term Examination, November 2022

DM-721 Participatory Irrigation Management and Watershed Management

Time - 3 Hour

MM-50

The question paper contains 1 printed page.

Attempt any five questions. Each question carries 10 marks.

- Q1. What are the critical issues and challenges seen till yet related to ground water sector in India? Discuss with suitable examples, facts and figures?
- Q2. Water User Association (WUA) has been instrumental to engage community for managing ground water in many parts of the country and globe? As a manager describe its characteristics, role and challenges they faced in implementing the concept at grassroots level.
- Q3. What are the factors affecting groundwater availability and movement in watershed management?
- Q4. What challenges does a community face in managing its ground water resources?
- Q5. What is Participatory Irrigation Management? How marginalized and small farmers can be benefitted by PIM Act.
- Q6. What is roof top harvesting? Is roof top harvesting safe for drinking purpose and can be used as a potable water. Justify your answer. What are the basic principles of groundwater management?
- Q7. What is Integrated Water Resource Management? Broadly discuss the steps required for planning of IWRM.
- Q8. Write down short notes on the following: (2 marks each)
- Factors affect ground water
 - Artificial Recharge techniques
 - Hydrological cycle - How it is affecting groundwater Management?
 - Specific Yield
 - Specific Retention