

Rain Water Harvesting (B22ED0601)

UNIT1

- 1) Explain the Water budget/ World's Water resources?
- 2) Explain the Indian scenario of water resources?
- 3) Explain the quality/categories of water?
- 4) What is water recycling? Explain the uses of recycled water?
- 5) Mention the uses of recycled water after **Secondary** treatment?
- 6) Mention the uses of recycled water after **Tertiary** treatment?
- 7) Explain water footprint with any two examples?
- 8) Explain the time dimension and geographical dimension of water footprint?

- 9) With a sketch, explain the different stages of hydrological cycle?
- 10) What is Rain Water Harvesting (RWH) and explain its needs?
- 11) Explain the direct use and artificial recharge of rain water with a sketch?
- 12) Explain the roof top, open land, paved area, parks, Road and side walk systems used for rain water harvesting?
- 13) Write a note on built up and non-built up area rain water harvesting?
- 14) Explain the benefits of rain water harvesting?
- 15) List the methods of Rain water harvesting in ancient India? With sketches, explain any two?

UNIT 2

- 16) List and explain any eight advantages of rain water harvesting?
- 17) What is a catchment and explain its features with a sketch?
- 18) Explain the natural resources of water i) Surface water ii) river water iii) ground water & iv) Frozen water?
- 19) What is integrated Farming? Explain the goals of integrated farming/
- 20) What are the elements/items of integrated farming and explain any six?
- 21) Explain the components of integrated farm management?
- 22) Explain the factors influencing soil erosion?
- 23) Explain any six soil conservation Techniques?
- 24) What is **arid** region? Explain any six features of arid region?
- 25) What is **semi arid** region? Explain any six features of this region?
- 26) List and describe the five types of drought?
- 27) Explain drought mitigation and planning with respect to Water resources, agriculture & Water management?
- 28) What are the objectives of watershed development programs?
- 29) What are the elements in Watershed development and poverty reduction?
- 30) What are the advantages of watershed management?

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UNIT 1

Global and Indian Scenario for Water Resources: Surface Water and Groundwater Global and Indian Scenario-Quality of water resources. Usable water resources by continent and Country-Water footprint. Water use and Sustainable Reuse Methods.

Concept and Necessity of Rainwater Harvesting, Benefits of Rainwater Harvesting (Social, Environmental, and Economic), Rainwater Harvesting in ancient India and worldwide.

UNIT 2

Advantages of Rainwater Harvesting, Natural Water Resources. Agricultural Practices, integrated farming, Soil erosion and conservation techniques.

Concept of Arid and Semiarid Regions. Drought Management- introduction, Drought assessment and classification, drought mitigation planning, Concept of watershed, introduction to watershed management.