Time: 3 hrs

TUTE OF I	CBCS SCHEME
USN	
Sixth Se	nester B.E. Degree Examination, Jan./Feb. 2021 Water Resources Management

Max. Marks: 80

15CV661

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

Module-1

a. Define Hydrological cycle with a neat sketch and explain different process in hydrological cycle.
 b. Explain Global water resources and Indian water resources.
 (08 Marks)
 (08 Marks)

OR

a. Explain Water balance equation. Mention its importance.
 b. Explain Groundwater resources. Differentiate between confined aquifer and unconfined

aquifer. (08 Marks)

Module-2

3 a. Describe the necessity of water resources planning and management. (08 Marks)

b. Explain System Components. Describe the planning scale of water resource management.
(08 Marks)

OR

4 a. Explain the water resource planning and management analysis. (08 Marks)

b. Describe the planning and management aspects. Discuss the post planning and management issues. (08 Marks)

Module-3

5 a. Define IWRM. Describe the principles of IWRM.

(08 Marks)

b. Explain the implementation of IWRM.

(08 Marks)

OR

a. Describe the Legislative and Organizational framework of IWRM along with assessment.

(08 Marks)

b. Describe the types and forms of private sector involvement.

(08 Marks)

Module-4

7 a. Explain Legal framework of water.

(08 Marks)

b. Explain National water laws and other key issues.

(08 Marks)

OR

a. Describe Irrigation Management transfer policies and activities.

(08 Marks)

b. Explain Origin of WUA's and its Byelaws.

(08 Marks)

Module-5

9 a. Explain Water harvesting techniques. Discuss the necessity of water harvesting. (08 Marks)

b. Describe the design of small harvesting structure like farm ponds (layout & design).

(08 Marks)

OR

10 a. Explain Micro catchment water harvesting. Mention advantages of micro catchments.

(08 Marks)

b. Describe the various rainwater harvesting techniques.

(08 Marks)

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