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Sixth Semester B.F. Degree Examination, Dec.
an.2020
Water Resources Management

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Explain Hydrologic cycle, with a neat sketch. (08 Marks)
- b. Explain briefly Indian Water Resources. (08 Marks)

OR

- 2 a. What is meant by Water scarcity? Discuss reasons for water scarcity problems. (08 Marks)
- b. Explain different types of aquifers. Also explain the different water bearing formations. (08 Marks)

Module-2

- 3 a. State the necessity of Water Resources Planning and Management. (08 Marks)
- b. Explain system components used in Water Resource Planning. (08 Marks)

OR

- 4 a. Discuss Planning and Management aspects. (08 Marks)
- b. Explain approaches used in Water Resource Planning. (04 Marks)
- c. Explain Post Planning and Management Issues. (04 Marks)

Module-3

- 5 a. Define IWRM. Mention Dublin principles of IWRM. (08 Marks)
- b. Explain process of Implementation of IWRM. (08 Marks)

OR

- 6 a. Explain Legislative and Organizational Frame work in IWRM. (08 Marks)
- b. Discuss types and forms of Private Sector involvement in IWRM. (08 Marks)

Module-4

- 7 a. What is meant by Water Governance? State the need of Water Governance. (08 Marks)
- b. Mention the necessity of National Water Law. (08 Marks)

OR

- 8 a. Explain salient features of National Water Policy 2012. (08 Marks)
- b. Explain Irrigation Management Transfer policies and activities. (08 Marks)

Module-5

- 9 a. Explain briefly any two Rain water Harvesting Techniques. (08 Marks)
- b. Explain Micro — Catchments Rain water Harvesting. (08 Marks)

OR

- 10 a. Explain design steps for percolation Tank in RWH. (08 Marks)
- b. List and explain the factors influencing Yield from a catchment. (08 Marks)