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15CV661

Sixth Semester B.F. Degree Examination, Dec.2018/Jan.2019
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 neat sketch. (08 Marks)
- b. What is an Aquifer? Explain various types of aquifers with sketches. (08 Marks)

OR

- 2 a. What is Scarcity of water? Give causes and effects of scarcity of water. (08 Marks)
- b. Write a detailed note on Indian water resources. (08 Marks)

Module-2

- 3 a. Explain the need of Water Resources Management. (06 Marks)
- b. Give three approaches of planning. Discuss the advantages of each one. (10 Marks)

OR

- 4 a. List various aspects of planning of water resources. Explain in detail. (08 Marks)
- b. In adaptive integrated policies, which are the questions to be answered by the planners and managers? (08 Marks)

Module-3

- 5 a. Give Integrated Water Resources Management (IWRM) definition as put up by Global Water partnership (GWP). Also give Dublin principles. (08 Marks)
- Explain types and forms of private sector involment in IWRM. (08 Marks)

OR

- 6 a. Explain the frame work of IWRM , developed by GWP , consisting of three 'E's. (08 Marks)
- b. Give fWRM tools of implementation. (08 Marks)

Module-4

- 7 a. Write in detail about National Water policies. (08 Marks)
- b. Give a broad roadmap for implementation of water policies. (08 Marks)

OR

- 8 a. Write a note on the role of community based organization" in WRM. (08 Marks)
- b. Explain Water laws, Policies and Administration in India. (08 Marks)

Module-5

- 9 a. Explain various methods of Rain water harvesting. (08 Marks)
- b. Write in detail about Micro catchment, with neat sketch. (08 Marks)

OR

- 10 a. Give details of farm pond, as a water harvesting structure. (08 Marks)
- b. How percolation tanks help in water harvesting? Give the design considerations for the same. (08 Marks)