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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 IWRM 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)