

Total No. of Questions : 8]

SEAT No. :

P-6527

[Total No. of Pages : 2

[6181]-76

B.E. (Civil)

**INTEGRATED WATER RESOURCES PLANNING AND
MANAGEMENT**

(2019 Pattern) (Semester - VII) (Elective - III) (401003C)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) Assessment of river water quality plays important, Justify and write a brief note on prevention and control of surface water pollution. [10]
- b) Explain water quality monitoring for basins. [8]

OR

- Q2)** a) What is Environmental Impact Assessment (EIA) and what are its objectives, state methodology to carryout EIA. [10]
- b) State any four important CPCB regulations regarding water pollution control. [8]

- Q3)** a) State and explain principles of planning and financing water of water resources projects. [10]
- b) Explain how water is economic good. [7]

OR

- Q4)** a) Explain framework for planning a sustainable water future. [10]
- b) Explain in brief economics and decision making in IWRPM. [7]

- Q5)** a) What are water crises, explain its global and national perspective. [10]
- b) State and explain rural local governing body water laws. [8]

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OR

Q6) a) State and explain UN laws on non-navigable uses of international water courses. [10]

b) State any four municipal corporation laws regarding water supply and drainage. [8]

Q7) a) Explain in detail role of dam in flood control and power generation and its importance in IWRPM. [10]

b) Explain importance of management of flood plains. [7]

OR

Q8) a) What is flood forecasting what are the methods to forecast flood. [10]

b) Explain application of soft computing in flood control. [7]

