Total No. of Questions : 8]

PA-908



SEAT No. :

[Total No. of Pages : 2

[Max. Marks : 70

[5927]-332 B.E. (Civil)

INTEGRATED WATER RÉSOURCES PLANNING AND MANAGEMENT

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

Time : 21/2 Hours]

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 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) Justify importance assessment of river water quality and write a brief note on prevention and control of surface water pollution. [10]
 - b) What is water quality monitoring for basins.

[8]

- Q2) a) What is Environmental Impact Assessment (EIA) and what are its objectives, state methodology to carryout EIA. [19]
 - b) State any four 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]

P.T.O.

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

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]

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