

Total No. of Questions : 4]

SEAT No. :

PE178

[6580]-535

[Total No. of Pages : 1

B.E. (Civil) (Insem)

**INTEGRATED WATER RESOURCES PLANNING AND
MANAGEMENT**

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

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Solve Q.1 or Q.2 and Q.3 or Q.4.*
- 2) *Figures to the right indicate full marks.*
- 3) *Draw neat diagrams wherever necessary.*
- 4) *Use of logarithmic table, slide rule and electronic pocket calculator are allowed.*
- 5) *Assume suitable data, if necessary, stating it clearly.*

- Q1)** a) Explain in detail National Water Policy [NWP]. [6]
b) Describe the challenges of IWRPM. [5]
c) State the objectives of IWRPM. [4]

OR

- Q2)** a) Explain in detail the Central Water Commission [CWC]. [6]
b) State and explain the components of IWRPM. [5]
c) State the goals and objectives of Global Water Partnership [GWP]. [4]

- Q3)** a) Explain water and land management institute [WALMI]. [6]
b) Explain the challenges achieve global water security. [5]
c) Find the delta for crop if the duty for a base period of 120 days is 1500 hectors/cumes. [4]

OR

- Q4)** a) The depth of penetration along the length of border strip at point of 30m apart were probed. Their observed values are 2.2, 2.0, 1.9, 1.8 and 1.6m. calculate the water distribution efficiency. [6]
b) Explain the importance of participatory irrigation management [PIM]. [5]
c) Explain blue vs green dispute. [4]

