

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5778

J

Unique Paper Code : 2182011201

Name of the Paper : Water and Water Resources

Name of the Course : **B.Sc. (H) Environmental Sciences -Core (DSC-4)**

Semester : II

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Answer any **four** questions out of the **six** provided.
3. **All** Questions carry equal marks.

1. (a) Fill in the blanks : (1×5=5)

- (i) Aquifers are underground layers of _____ that can hold and transmit groundwater
- (ii) The boundary between two different drainage basins is known as _____ .
- (iii) First Ramsar sites of India are _____ and _____ .
- (iv) CRZ stands for _____ .
- (v) Kaveri river dispute is between the states of _____ .

(b) Define and explain the following terms : (2×5=10)

- (i) Watershed
- (ii) Chemical Oxygen Demand
- (iii) Infiltration
- (iv) Water Table
- (v) Sodium adsorption ratio



2. Write short notes on the following : (3½×4=15)
- (i) Organic Pollutants in Water
 - (ii) Threats to Wetlands
 - (iii) Rainwater harvesting in urban settings
 - (iv) Drainage basins
3. Write explanatory notes on the following : (5×3=15)
- (i) Ramsar Convention, 1971
 - (ii) Water quality standards in India
 - (iii) Teesta Water Treaty
4. (a) Discuss with case study the Positive and Negative impacts of Multipurpose river valley projects. (10)
- (b) Discuss India's National Water Policy. (5)
5. Will linking rivers reduce the impact of climate change in India? Discuss the pros and cons of India's National River Linking Plan. Will it reduce the water sharing disputes between Indian states? (15)
6. Discuss why the demand for water in agriculture has increased over time. What is the role of climate change in exacerbating the water stress in India? What are some of the best management practices of Surface and subsurface water in some states of India? (5+5+5)

