

**2022/TDC(CBCS)/EVEN/SEM/
EESHCC-201T/098**

TDC (CBCS) Even Semester Exam., 2022

**ECOLOGY AND ENVIRONMENTAL SCIENCE
(Honours)**

(2nd Semester)

Course No. : EESHCC-201T

(Water and Water Resources)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Define/Answer any ten : 2×10=20

- 1. Runoff**
- 2. Infiltration**
- 3. Evapotranspiration**
- 4. Surface water**
- 5. Groundwater**

(2)

6. Watershed
7. Wetland
8. Water depletion
9. Water quality
10. Marine resource
11. Resource management
12. EEZ
13. What is National River Linking Plan?
14. Mention two ecological impacts of multipurpose river valley project.
15. Mention two advantages of multipurpose river valley projects when constructed in a sustainable way.

SECTION—B

Answer any *five* questions : 6×5=30

16. Describe briefly how the physical properties of water like temperature, total dissolved solid and total suspended solid affect the aquatic systems and its organisms. 2+2+2=6
17. Describe briefly how the chemical properties of water like pH, BOD and alkalinity affect the aquatic system and its organisms. 2+2+2=6

(3)

18. What do you understand by groundwater pollution? What are the major causes of groundwater pollution? State some of its control measures. 1+3+2=6
19. What is rainwater harvesting? Describe briefly the various methods of rainwater harvesting in urban settings. 1+5=6
20. What are the major reasons for depletion of surface water? Describe briefly the various ways to control and manage the depletion of surface water. 3+3=6
21. What are the negative effects of groundwater depletion? Describe briefly the various ways by which we can control and manage the depletion of groundwater. 3+3=6
22. Describe briefly the commercial use of marine resource. 6
23. Describe briefly the various strategies for management of marine resources. 6
24. Describe briefly the National Water Policy. 6
25. Describe briefly the various advantages and disadvantages of the National River Linking Plan. 6

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