

**2024/TDC (CBCS)/EVEN/SEM/
EESHCC-201T/143**

TDC (CBCS) Even Semester Exam., 2024

ECOLOGY AND ENVIRONMENTAL SCIENCE

(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*

UNIT—I

1. Answer any two of the following questions :

2×2=4

- (a) Explain the role of DO in waterbodies.
- (b) Under what condition BOD in water increases? Explain.
- (c) Briefly discuss the relationship between acidity and alkalinity.

(2)

2. Answer any *one* of the following questions : 6

- (a) Briefly discuss the process of precipitation and infiltration contributing to the hydrological cycle.
- (b) Discuss the utility pattern of different water resources.

UNIT—II

3. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) Write two salient points on water management.
- (b) Outline the importance of watershed.
- (c) Mention the advantages of rainwater harvesting.

4. Answer any *one* of the following questions : 6

- (a) How are the aquifers formed? Elucidate the properties of aquifers.
- (b) Discuss the techniques of groundwater recharge.

UNIT—III

5. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) Mention few ecological significances of wetlands.

(3)

- (b) Cite two major threats currently faced by the wetlands.
- (c) Mention the products obtained from wetlands.

6. Answer any *one* of the following questions : 6

- (a) Write a note on the characteristic features of wetlands in North-East India.
- (b) Briefly explain the major causes of depletion of groundwater resources.

UNIT—IV

7. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) Give at least two characteristics of marine ecosystem.
- (b) Give two key features of marine resource management.
- (c) Write two major threats currently faced by marine ecosystems.

8. Answer any *one* of the following questions : 6

- (a) Write five important marine resources and highlight their commercial significance.
- (b) What is EEZ? How does it differ from territorial sea?

(4)

UNIT—V

9. Answer any *two* of the following questions :

2×2=4

- (a) Cite two instances of conflicts on water sharing between India and neighbouring country.
- (b) Write two important points on National River Linking Plan.
- (c) Write a note on 'Tehri Dam'.

10. Answer any *one* of the following questions : 6

- (a) Write on the impact of multi-purpose river valley projects on society.
- (b) Write a note on the Water Pollution (Control and Prevention) Act, 1972.

★ ★ ★