



**Ba/Bs/EVS M-2T**

**2024**

**( FYUGP )**

**( 2nd Semester )**

**ENVIRONMENTAL SCIENCE**

**( Minor )**

**Paper Code : EVS M-2T**

**( Water and Water Resources )**

*Full Marks : 75*

*Pass Marks : 40%*

*Time : 3 hours*

**( PART : B—DESCRIPTIVE )**

**( Marks : 50 )**

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

**Answer any five questions**

- 1. Describe the hydrological cycle in detail. 10**
- 2. Elucidate on the physical properties of water. 10**
- 3. Elaborate on surface and sub-surface water as a resource. Mention the significance of rainwater harvesting in urban settings.**

**5+5=10**

( 2 )

4. Explain the importance of watershed and watershed management. 5+5=10
5. What is marine resource? State the various threats to marine ecosystem. 3+7=10
6. Discuss the physical parameters used to determine the water quality. 10
7. Explain the role of State in water resource management. 10
8. Discuss on the Indus Water Treaty. 10
9. What are multipurpose river valley projects? Mention their environmental and social impacts. 2+(4+4)=10
10. Discuss on the Krishna River Water Dispute. 10

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**Paper Code : EVS M-2T**

**( Water and Water Resources )**

**( PART : A—OBJECTIVE )**

**( Marks : 25 )**

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

**SECTION—I**

**( Marks : 15 )**

Put a Tick (✓) mark against the correct answer in the  
brackets provided : 1×15=15

**1. Which of the following use chlorophyll and sunlight  
to create energy?**

- (a) Crustaceans            (    )**
- (b) Phytoplanktons        (    )**
- (c) Zooplanktons          (    )**
- (d) Macro-invertebrates    (    )**

2. The ability of water to neutralize an acid is termed as

- (a) acidity ( )
- (b) alkalinity ( )
- (c) electrical conductivity ( )
- (d) adsorption ( )

3. Which of the following is not an organic constituent of water?

- (a) Dioxin ( )
- (b) Furan ( )
- (c) Polychlorinated biphenyl ( )
- (d) Cadmium ( )

4. The major source of water for groundwater is

- (a) connate water ( )
- (b) meteoric water ( )
- (c) magmatic water ( )
- (d) vadose water ( )

5. A relatively impermeable formation neither containing nor transmitting water is called as

(a) aquifuge ( )

(b) aquifer ( )

(c) aquitard ( )

(d) aquiclude ( )

6. The location, number and flow directions of a particular region depend on

(a) nature of slope ( )

(b) structural control ( )

(c) tectonic factors ( )

(d) All of the above ( )

7. The Ramsar Convention is the only global treaty to focus on

(a) multiple ecosystem ( )

(b) single ecosystem ( )

(c) double ecosystem ( )

(d) None of the above ( )

8. The plant and animal communities of marine environment and the environment of their habitats are collectively called as

(a) marine ecosystem ( )

(b) marine biome ( )

(c) marine resource ( )

(d) ocean ecosystem ( )

9. A minimum tidal range of \_\_\_\_\_ is a prerequisite condition for electricity generation.

(a) 5 m ( )

(b) 10 m ( )

(c) 8 m ( )

(d) 6 m ( )

10. The Teesta Water Dispute is between which of the following two countries?

(a) Pakistan and India ( )

(b) India and Myanmar ( )

(c) Nepal and India ( )

(d) India and Bangladesh ( )

**11.** Which of the following is not a cause of depletion of surface water resources?

- (a) Landscape modification ( )
- (b) Overfishing ( )
- (c) Land use changes ( )
- (d) Pollution ( )

**12.** Which of the following is the first river linking project of India?

- (a) Par-Tapi-Narmada Link ( )
- (b) Kosi-Mechi Link ( )
- (c) Ken-Betwa Link ( )
- (d) Daman Ganga-Pinjal Link ( )

**13.** Kaveri Water Dispute is between which two Indian States?

- (a) Madhya Pradesh and Maharashtra ( )
- (b) Karnataka and Tamil Nadu ( )
- (c) Odisha and West Bengal ( )
- (d) Andhra Pradesh and Goa ( )



**14. The India-China Water Conflict is over which of the following rivers?**

(a) Ganga ( )

(b) Godavari ( )

(c) Brahmaputra ( )

(d) Indus ( )

**15. The Tehri Dam is located in which Indian State?**

(a) Gujarat ( )

(b) Uttarakhand ( )

(c) Madhya Pradesh ( )

(d) Karnataka ( )



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SECTION—II

( Marks : 10 )

Answer/Write short notes on any *five* of the following :

2×5=10

1. Define water conflict. Give two reasons for water conflict.

2. Mention two causes for the depletion of groundwater resources.

**3. River water resource**

4. Discuss the salient features of the Water Pollution Act, 1974.

5. Surface water pollution

**6. Ecological significance of wetlands**

7. Define acidity and alkalinity of water.

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