

W/D/TY



VIT

Vellore Institute of Technology

Course: BCLE216L

Class NBR(s): 3461

Time: Three Hours

Final Assessment Test - April 2025
Water Resource Management

Slot: B1+TB1

Max. Marks: 100

- KEEPING MOBILE PHONE/ANY ELECTRONIC GADGETS, EVEN IN 'OFF' POSITION IS TREATED AS EXAM MALPRACTICE
- DON'T WRITE ANYTHING ON THE QUESTION PAPER

Answer ALL Questions
(10 X 10 = 100 Marks)

1. Analyse the types of water resources planning and their significance in the efficient management of water resources.
2. What are the key challenges in sustainable groundwater management? Discuss the issues faced by water resource managers and evaluate the measures taken by the Government of India to address them.
3. Describe the methods of geophysical exploration and discuss their applications in groundwater investigation through highlighting a suitable method.
4. How can different irrigation efficiencies be optimized to enhance water management in irrigation projects? Critically analyse their impact.
5. What are the key components in assessing the economic value of water resources? Discuss the role of the Dublin Principle in recognizing water as an economic good.
6. Explain the key governing principles and methods in the international water law framework for managing transboundary water resources.
7. How can water supply and demand be effectively balanced? Critically examine the major challenges and innovative strategies for balancing the water supply and demand.
8. What are the key drivers of water loss, and how can it be effectively detected and controlled? Critically explore innovative strategies for mitigation.
9. a) Are India's water conservation policies truly effective? Critically examine their impact, challenges, and prospects for protecting water bodies.

OR

9. b) How does water pricing influence water resource management? Critically analyse its advantages, disadvantages, and real-world implications with relevant examples.
10. a) What are the key mechanisms for resolving international water disputes? Discuss the role of international organizations in enforcing water laws.

OR

10. b) How effective is the national water law framework? Critically examine its key features, structural components, and real-world applications with examples.

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