

\* **C16-C-402**

**6425**

**BOARD DIPLOMA EXAMINATION, (C-16)**

**MAY/JUNE—2023**

**DCE - FOURTH SEMESTER EXAMINATION**

**IRRIGATION ENGINEERING**

*Time : 3 Hours ]*

*[ Total Marks : 80*

**PART—A**

*3×10=30*

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List any six factors affecting the duty of water.
2. State any three uses of rain fall records.
3. Write the difference between weir and barrage.
4. List the situations where earthen dam is preferred.
5. Classify canals based on alignment.
- \* 6. State the need for canal lining.
7. List any three objectives of river training works.
8. Write any three functions of water user associations.
9. Write the advantages and disadvantages of drip irrigation.
10. State any three objectives of watershed management.

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*[ Contd...*

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**PART—B**

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. State the advantages and disadvantages of irrigation.
12. Briefly describe Simon's rain gauge with sketch.
13. Explain the component parts of diversion head works with a sketch.
14. List the factors to be considered in the site selection for a dam.
15. List the common types of spillways and explain about any two of them.
16. Explain the typical cross sections of canals with the help of sketches.
17. Define soil erosion. Write the causes and ill effects of soil erosion.
18. Explain the methods of rain water harvesting.

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