

**6425**  
**BOARD DIPLOMA EXAMINATION**  
**JUNE - 2019**  
**DIPLOMA IN CIVIL ENGINEERING**  
**IRRIGATION ENGINEERING**  
**FOURTH SEMESTER EXAMINATION**

**Time: 3 Hours**

**Total Marks: 80**

**PART - A (3m x 10 = 30m)**

*Note 1: Answer all questions and each question carries 3 marks*

*2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences*

1. Define Indirect irrigation
2. List out any three types of Catchment area.
3. State the Protective works used for Weir.
4. Define Breaching section in an Earthen Dam
5. Name different types of Aqueducts
6. State any three advantages of Canal Lining.
7. List different stages of flow of Rivers
8. State any three disadvantages of Sprinkler Irrigation
9. State any three duties of Water User Association
10. Define watershed and watershed management

**PART - B (10m x 5 = 50m)**

*Note 1: Answer any five questions and each carries 10 marks*

*2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer*

11. State any ten advantages of Irrigation
12. a) Explain with a sketch Hydrologic cycle
- \* b) Define River gauging. State any three objectives of River gauging
13. Sketch the layout of Diversion head work and explain its component parts
14. Explain the method of construction of Earth Dam
15. Explain the working of Siphon spillway with sketch and mention its merits.
16. Explain briefly different types of Canal Linings.

17. Explain any five ill effects of Water Logging

18. Explain the different methods of Rain water harvesting.

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