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BOARD DIPLOMA EXAMINATION
MARCH/APRIL - 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. **Distinguish between perennial and in undation irrigation.**
2. **State any three uses of Rainfall records**
3. **Define Flood banks**
4. **State any three situations that are suitable for construction of Earthen Dams**
5. **Define Regime channel**
6. **Sketch typical cross section of Canal in partial cutting and Embankment**
7. **List different stages of flow of Rivers**
8. **State any three advantages of Sprinkler Irrigation**
9. **State any three duties of Water User Association**
10. **Write any three advantages of Artificial recharge of Ground water**

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. a) **Write about principal crops in India.**
 b) **Define crop period, Base period, Duty, Delta and derive the relation between them.**
12. **With a sketch, explain the working of Float type automatic Rain gauge**
13. **Sketch the layout of Diversion head work and explain its component parts**
14. **Explain the working of Siphon spillway with a sketch**
15. **Explain Construction and contraction joints with sketches**

16. Explain Siphon Aqueduct with a sketch and mention its merits.
17. Explain any five ill effects of Water Logging
18. Explain methods of Rain water harvesting

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