Code: C16 C-402

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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 $(3m \times 10 = 30m)$

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

- 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 charact
- 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

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

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- 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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A. A. M. MEV. V. R. S. R. DOLYTRECHNIC GIDLIAVALLIBRO FEELBRING.

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