Code: C-09 C-403

#### 3424

## **BOARD DIPLOMA EXAMINATION, (C-09)**

### **JUNE - 2019**

# DIPLOMA IN CIVIL ENGINEERING IRRIGATION ENGINEERING FOURTH SEMESTER EXAMINATION

Time: 3 Hours Total Marks: 80

### **PART - A** $(10 \times 3 = 30 \text{ Marks})$

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. What are the advantages of Drip irrigation?
- 2. Define Base period, Crop period and Delta?
- 3. What is the purpose of providing a diversion headwork?
- 4. List the component parts of a weir.
- 5. What is a drainage gallery? Why drainage galleries are provided in gravity dams?
- 6. State the different types of spillways.
- 7. State any three situations where Earthen dams are suitable?
- 8. Draw the cross section of a canal in partial embankment and partial cutting.
- 9. What is soil erosion?
- 10. What is meant by water harvesting? Why is it necessary?

## **PART - B** $(5 \times 10 = 50 \text{ Marks})$

Note 1:Answer any five questions and each question 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. Explain the advantages and disadvantages of irrigation?
- 12. Explain the construction and working of a Simon's rainguage with a sketch.
- 13. Draw a neat sketch of a diversion head work and label its parts.
- 14. Explain the points to be considered for the selection of site for a reservoir.
- 15. Explain the measures to be taken for maintenance of earth dams.
- 16. Draw the practical profile of a gravity dam and explain its features.
- 17. What are canal regulation works? What is the objective of providing,
  - a) Head Regulator
- b) Canal drop
- c) Canal escape.
- 18. Explain about the characteristics of watershed?

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