



C16-C-402

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BOARD DIPLOMA EXAMINATION, (C-16)  
OCTOBER—2020  
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. State three methods of expressing duty.
2. State different methods of estimating average rainfall over a catchment.
3. State three functions of head regulator.
4. List three types of spillways.
5. Draw a neat sketch of canal in cutting and label the parts.
6. State six types of canal linings.
7. State different methods of land reclamation.
8. List any three advantages of sprinkler irrigation.
9. State the duties of water-user associations.
10. What is water harvesting? Why it is necessary?

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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 the criteria for valuation are the content but not the length of the answer.

11. Explain briefly different types of irrigation.
12. What is run-off? Explain the factors affecting run-off from a catchment.
13. Describe with a neat sketch, the component parts of weir.
14. What are the causes of failure of gravity dam? Explain briefly.
15. Draw the elementary and practical profile of gravity dam and label the parts.
16. Explain the different methods of alignment of canal with sketches.
17. State the causes of water logging and effects of water logging.
18. State five objectives of watershed management.

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