



c09-c-403

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**BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL—2018
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. Define irrigation.
2. State the characteristics of good catchment.
3. State the functions of scouring sluice.
4. List any three functions of diversion head works.
5. Mention any three failures of gravity dam.
6. List the types of joints in gravity dam.
7. List any three failures of earthen dam.
8. Draw the typical cross-section of canal in partial cutting and partial embankment.

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9. State any three ^{*} objectives of watershed management.

10. Explain about rainwater harvesting.

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain the advantages and disadvantages of irrigation.

12. Explain with neat sketch the float-type automatic recording rain gauge.

13. Explain with neat sketch the component parts of a weir.

14. Explain drainage gallery with neat sketch.

15. Explain the construction of rolled fill earth dam.

16. Explain with neat sketch the ogee spillway.

17. (a) State the advantages and disadvantages of canal lining. 6

(b) Draw the cross-section of canal in embankment. 4

18. Explain about different soil moisture conservation methods.

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