



c09-c-403

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**BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL—2021
DCE - FOURTH SEMESTER EXAMINATION
IRRIGATION ENGINEERING**

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **four** marks.
(3) Any missing data can be suitably assumed.

1. Define Flow Irrigation and Lift Irrigation.
2. List any two methods of expressing duty of water.
3. Distinguish between barrages and weirs.
4. List any two factors for selection of site for Diversion head works.
5. Define spillway and Free board.
6. List any two conditions suitable for earth dams construction.
7. Define phreatic line in earth Dams.
8. Draw the cross section of canal in cutting.
9. Briefly explain rain water harvesting.
10. Define Watershed Management.

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PART—B

15×4=60

- Instructions :** (1) Answer *any four* questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Briefly explain sprinkler Irrigation and Drip Irrigation.
12. Explain Symon's rain gauge with a neat sketch.
13. Briefly explain component parts of a diversion head works with a neat sketch.
14. List out the factors affecting selection of site for Dams and Reservoirs.
15. Briefly explain the causes of failure of earthen dams.
16. What is the role of civil Engineer during the construction of dams?
17. List out different types of cross drainage works and explain briefly any one.
18. List the objectives of Watershed Management.

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