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C14-C-504

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BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2021

DCE - FIFTH 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) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define Storage Irrigation and Direct Irrigation.
2. Define Catchment Area and Run-off.
3. Distinguish between Barrage and Weir.
- * 4. Define Live Storage and Dead storage.
5. Draw typical cross section of canal in cutting.
6. List any two cross-drainage works.
7. Briefly explain sprinkler Irrigation.
8. Explain water user association system.
9. Define Watershed Management.
10. Briefly explain Check dams.

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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. List the advantages of Irrigation.
12. Describe float type automatic recording rain gauge with a neat sketch.
13. Draw the component parts of a diversion head works with a neat sketch.
14. What is the role of Civil Engineer in the construction of irrigation project?
15. Explain causes of failure of gravity dams.
16. Explain need for drainage galleries with a neat sketch.
17. List out various types of cross-drainage works and explain Aqueduct.
18. List out any five causes of water logging and any five effects of water logging.

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