



C14-C-504

4621

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2016

DCE—FIFTH 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. Distinguish between perennial irrigation and inundation irrigation.
2. Write about the hydrological cycle.
3. Write any three main functions of head regulator.
4. Distinguish between low dam and high dam.
5. Why are linings provided to canals?
6. What is meant by balancing depth of cutting in canals?
7. Write any three advantages of drip irrigation.
8. Write a short note about check flooding.
9. Define watershed management.
10. Write any three advantages of rainwater harvesting.

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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 criterion for valuation is the content but not the length of the answer.

11. Explain the advantages and disadvantages of irrigation.
12. What are the factors affecting run-off?
13. Describe with a neat sketch the component parts of a weir.
14. Explain silt excluding device with a neat sketch.
15. List the factors to be considered in the selection of site for a dam.
16. Explain with sketches the causes of failure of earthen dams and their preventive measures.
17. What is superpassage? Explain with a neat sketch.
18. State the causes of waterlogging and explain them.

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