



C16-C-402

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BOARD DIPLOMA EXAMINATION, (C-16)
OCTOBER/NOVEMBER—2023
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 different crop seasons in India.
2. State three methods of calculation of maximum flood discharge.
3. Distinguish between barrage and weir.
4. Define dam and list four types of dams.
5. State three advantages of canal lining.
6. State three typical cross-sections of canals.
7. State three types of river training works.
8. List three methods of irrigation.
9. State three advantages of drip irrigation.
10. Write three advantages of rain water harvesting.

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[Contd...

PART—B

10×5=50

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

- 11.** Define duty and explain about the factors affecting duty.
- 12.** (a) What are the objectives of river gauging.
(b) What are the points to be remembered while selecting the site for river gauging?
- 13.** State the factors affecting selection of site for head works.
- 14.** Draw a sketch of drainage gallery and explain its functions.
- 15.** State the situations in which earth dams are suitable.
- 16.** What is super passage? Explain with a sketch.
- 17.** Explain various methods of land reclamations.
- 18.** Explain about the following :
(a) Soil moisture conservation
(b) Artificial recharge of groundwater

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