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Question Paper Code : 71253

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

Fifth Semester

Civil Engineering

CE 2301/CE 50/10111 CE 501 — IRRIGATION ENGINEERING

(Regulation 2008/2010)

(Common to PTCE 2301/10111 CE 501 — Irrigation Engineering for B.E.
(Part-Time) Fifth/Sixth Semester — Civil Engineering — Regulation 2009/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write the need of irrigation.
2. State any two merits of Irrigation.
3. What is meant by Drip Irrigation?
4. What is Tank Irrigation method?
5. What do you mean by weir?
6. What is spill way?
7. Write two objectives of river training works.
8. Distinguish between permanent canal and an inundation canal.
9. How to minimize irrigation loss?
10. What do you mean by water users association?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Brief about the term duty, delta, base period, and explain their relationships. (10)
- (ii) Discuss briefly classification based on crop seasons. (6)

Or

- (b) Elaborate to write the important factor affecting irrigation planning and development. (16)

12. (a) Explain planning and design of drip irrigation system. (16)

Or

(b) Explain types of sprinkler system in Irrigation. (16)

13. (a) Explain about design of weir and types of failures on pervious foundation. (16)

Or

(b) Elaborate to write design criteria and failure of earth dam. (16)

14. (a) What is necessity of providing a fall on a canal? Also discuss about the various types of fall with neat sketches. (16)

Or

(b) What is necessity of providing cross drainage works? And explain various Types with neat sketch. (16)

15. (a) Explain participatory irrigation management also elaborate to write need and objectives. (16)

Or

(b) Explain the performance evaluation of any implemented project. (16)
