

Reg. No. :

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 35106

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Fifth Semester

Civil Engineering

01UCE506 – IRRIGATION ENGINEERING

(Regulation 2013)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. What are the techniques of water distribution in the farms?
2. List out any four properties of soil.
3. Differentiate duty and delta.
4. What is crop period?
5. Define diversion headwork.
6. What are the forces acting on arch dam?
7. What is meant by canal escape?
8. List out the components of a diversion head works.
9. What are the works of on-farm developments?
10. Summarize the need for optimization of water use.
11. Define barrage.
12. What is meant by canal escape?
13. List out the components of a diversion head works.
14. What are the works of on-farm developments?

15. Summarize the need for optimization of water use.

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Explain briefly the classification of soil water. (10)
17. After how many days you will supply water to soil in order to insure sufficient irrigation of the crop, if field capacity of the soil = 30 %, permanent wilting point is 12%, density of soil = 1.25 gm/cc, effective depth of root zone = 60 cm, and daily consumptive use of water for the given crop = 12.5 mm. (10)
18. What are the factors affecting the selection of type of dam? (10)
19. What is a cross drainage works? Explain any two cross drainage works with neat sketches. (10)
20. Write notes on
(i) Participatory irrigation management. (10)