Reg. No. :

Question Paper Code: 35016

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2017

Fifth Semester

Civil Engineering

01UCE506 – IRRIGATION ENGINEERING

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

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. Define barrage.

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.

PART - B (5 x 16 = 80 Marks)

11. (a) Explain briefly the classification of soil water. (16)

Or

(b) Discuss about various types of irrigation methods generally adopted. (16)

12. (a) Enlist the factors affecting duty. Describe the various methods of improving duty. (16)

Or

(b) Explain the direct methods to measure the consumptive use. (16)

13. (a) Explain the selection of site for a dam and selection of type of dam. (16)

Or

(b) Explain the component parts of a spillway. (16)

14. (a) Explain the subsurface methods of irrigation and discuss its merits and demerits. (16)

Or

(b) Explain the various type of alignment of canals. (16)

15. (a) Explain on farm development works in irrigation water management. (16)

Or

(b) Explain briefly about water user's association and its scope and possible functions on irrigation water management. (16)

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