GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VIII (OLD) EXAMINATION - WINTER 2018

Subject Code: 180606 Date: 29/11/2018

Subject Name: Irrigation Water Management

Time: 02:30 PM TO 05:00 PM Total Marks: 70

Instructions:

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a) (b)	Give classification of surface irrigation and discuss any one in detail. How the saline land can be reclaimed?	07 07
Q.2	(a) (b)	Explain different irrigation efficiencies in detail. Compare drip irrigation and sprinkler irrigation. OR	07 07
	(b)	Write short note on sub-surface irrigation.	07
Q.3	(a) (b)	Explain the design procedure for sprinkler irrigation system. What are the ill effects of water logging in irrigation? OR	07 07
Q.3	(a) (b)	How the salinity in coastal area can be prevented? Define and explain irrigation scheduling.	07 07
Q.4	(a) (b)	Classify drainage systems with neat sketches. Draw a layout o drip irrigation system showing all components. OR	07 07
Q.4	(a) (b)	Explain merits and demerits of water user's organization. What is frequency of irrigation? Explain the factors affecting frequency of irrigation.	07 07
Q.5	(a) (b)	Explain the design procedure for drip irrigation system. What are the problems occurs from using poor quality irrigation water? OR	07 07
Q.5	(a) (b)	Differentiate between border strip irrigation and check basin irrigation. Discuss the commonly used irrigation indices in irrigation scheduling	07 07
