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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (OLD) EXAMINATION – SUMMER 2019			
Subject Code: 170602Date: 14/05/2019Subject Name:Irrigation EngineeringTotal Marks: 70Time: 02:30 PM TO 05:00 PMTotal Marks: 70Instructions:1. Attempt all questions.1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			19
			70
Q.1	(a) (b)	Explain each component of Diversion head work with a neat sketch. Explain Drip irrigation with neat sketch.	07 07
Q.2	(a) (b)	Explain irrigation efficiencies. Explain the methods of assessment of irrigation water. OR	07 07
	(b)	Explain the factors affecting duty. How can duty be improved?	07
Q.3	(a) (b)	Explain Khosla's method of independent variables for design of a weir. Explain balancing depth of a canal. Derive an expression for the same. OR	07 07
Q.3	(a) (b)	Compare Kennedy's and Lacey's silt theories. Explain with the help of neat sketches various types of cross drainage works.	07 07
Q.4	(a) (b)	Write a note on canal lining. Explain Sarda type fall in detail.	07 07
Q.4	(a) (b)	OR Explain the terms: (1) Saturation capacity (2) Field capacity (3) Wilting point Write a note on canal escape.	07 07
Q.5	(a) (b)	Write a note on water logging and remedial measures to prevent it. Discuss the benefits and ill effects of irrigation. OR	07 07
Q.5	(a) (b)		07 07
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