Registration No :														
												B.Tech.		
6 th Semester Back Examination 2017-18 IRRIGATION ENGINEERING BRANCH: CIVIL Time: 3 Hours Max Marks: 70 Q.CODE: C331 Answer Question No.1 which is compulsory and any five from the rest. 210 210 210 210 210 210 210 210 210 21														
Q1.	a) b) c)	Answer the following questions: What do you mean by delta of a crop? What is consumptive use of water? What do you mean by watershed canal?									(2 x 10)			
210	f) g) h) i)	List various types of canal falls. What is field capacity? Write the advantages of canal lining. Name the forces acting on a gravity dam. What are the function of fish ladder in a diversion head works? What are the disadvantages of water logging?												
Q2.	j) a) b)	What are the What are the help of neats	various sketches	210 metho	ds ava	ailable	e for i	rrigati			ss the			(4) (6)
	5)	The GCA for an irrigation channel is 5500 hectares and 70% of this area is culturable irrigable. The intensity of irrigation for Rabi crops is 45% and that for Kharif crops is 30%. Compute the required discharge if the duty at the head of the channel be 1800 he cares/cumecs and 800 hectares/cumecs for Rabi and Kharif crops respectively.									(0)			
Q3.	a)	Design an irr as 1.2. Use L			to ca	rry a	²¹⁰ discha	arge (of 20	m ³ /s		ce silt fa	actor	(7)
	b)	Draw neat cro	oss secti	ons of	a cana	al in (i) Cutt	ing (ii) Fillir	ng (iii)) Part	ial cutti	ng.	(3)
Q4.	a)	There are the depending undepending undepending undependent under the dependent under the dependent under the depending under	pon the	size c etches.	f the What	drain are t	age 1	to be	pass	sed b	elow	the ca	anal.	(6)
	b)	Discuss vario	ous meth	ods of	reclam	ation	of sa	line a	nd all	kaline	land	S.		(4)
Q5.	a)	Give classific		weirs.	What	are th	ne va	rious	types	of w	/eirs?	Draw	their	(6)
210	b)	Differentiate analysis of se							Kho	slas 21		od for	the 210	(4)

10	210		210	210	210	210	210	210
	Q6.		What is meant by falls? V What are the different way will you ensure its safety	ays by which a c	oncrete gravity of		(4) ow (6)	
10	Q7 210		Describe with the help embankment dam, along Draw a neat sketch of a C	with their function	ns.		ed (5)	210
	Q8.	a)	Write short notes on an Irrigation efficiencies			gn cintena.	(5 x 2)	
10	210	b) c) d)	Sub surface drainage Design of high dam Garret's diagram	210	210	210	210	210
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