		Reg. No. :											
Question Paper Code: 54104													
B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020													
Fourth Semester													
Civil Engineering													
15UCE404- WATER RESOURCES AND IRRIGATION ENGINEERING													
(Regulation 2015)													
Dur	ation: 1.15 hrs	Maximum: 30 Marks											
		PART A - (6	x 1	= 6 N	Aark	s)							
(Answer any six of the following questions)													
1.	Alkaline soils are best reclaimed by								CO1-				
	(a) leaching		(b) addition of gypsum to soil										
	(c) providing good dra	inage	(d) addition of gypsum to soil and leaching										
2.	With the increase in su	upplied irrigation wa	ed irrigation water, the yield of crops CO1- R										
(a) Increases continuously (b) Increases upto a certain and then becomes consta							nstant.						
(c) Decreases continuously (d) increases up to a certain limit and then decr								ecrea	ases				
3. The most expected crops in a hot arid district of Rajasthan State in India, in the month of Septemberare								CO2-					
	(a) Rice and sugarcane	2	(b) Bazar and maize										
	(c) Wheat and maize	(c) Wheat and maize (d) Tobacco and				nd co	otton						
4. The relation between duty(D) in hectares/ cumec, delta (Δ) in meters and base period (B) in days is								CO2-					
	(a) $\Delta = 8.64$ B / D		(b) Δ	= 86	.4 B	/ D						
	(c) $\Delta = 8.64 \text{ D} / \text{B}$			(d) $\Delta = 8640 \text{ B} / \text{D}$									
5.	If two canals are take diversion headwork, the respectively be	n off from both the	flar Inde	ıks c rslui	of a 1 ces a	river and c	at th livide	ne sid e wal	de of lls w	f a vill		CO3-	
	(a) 1 and 1	(b) 1 and 2	(c) 2	and 1	1			((d) 2	2 and 2		

6.	In a barrage project, a divide wall is provided to									
	(a) Separate the lower crest ' undersluice side' from the higher crest 'weir side'									
	(b) Separate the higher crest ' undersluice side' from the lower crest 'weir side'									
	(c) Keep the cross currents away from the barrage body									
	(d) Serve none of the above purposes									
7.	A canal escape is a structure constructed for the purpose of									
	(a) dissipating excess energy	(b) acting as a forebay								
	(c) discharging wastewater from the canal	(d) all of the above								
8.	Silt excluders are constructed		CO4- R							
	(a) On the river bed downstream of the head regulator									
	(b) On the river bed upstream of the head regulator									
	(c) On the canal bed downstream of the canal head regulator									
	(d) None of these									
9.	The efficiency of water conveyance does not depend upon									
	(a) Climatic conditions									
	(b) Geometry of the conveyance system									
	(c) Nature of the boundary of the conveyance system									
	(d) Method of application of water									
10.	Over irrigation is responsible for	irrigation is responsible for								
	(a) seepage	(b) water logging								
	(c) water management									
	PART – B (3 x 8= 24 Marks)									
(Answer any three of the following questions)										
11.	Discuss the advantages and ill effects of irriga	tion	CO1- U	(8)						
12.	Explain the factors affecting duty. How to improve duty?		CO2- U	(8)						
13.	Differentiate between weir and barrage			(8)						
14.	Compare kennadys and laceys regime theory.			(8)						
15.	Discuss the various techniques used for distrib	CO5- U	(8)							