1					
Reg. No. :					

Question Paper Code: 35106

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fifth Semester

Civil Engineering

01UCE506 - IRRIGATION ENGINEERING

(Regulation 2013)

Duration: 1.15 hrs Maximum: 30 Marks

PART A - $(6 \times 1 = 6 \text{ Marks})$

	(Answer any six of the following questions)					
1.	The irrigation is necessary	ary in an area.				
	(a) where there is a(b) where the rainfa(c) where commerc(d) all the above	•	re water			
2.	Salinity in irrigation was (a) SAR value (c) pH value	ter is measured by	(b) electrical condu(d) none of these	activity value		
3.	The ratio between the a its entire period of the g	, ,	ted and the quantity (c) base period	of water required during (d) crop period		
4.		· , , , , , , , , , , , , , , , , , , ,	(c) base period	(a) crop period		

- - (a) is measured as the volume of water per unit area
 - (b) is measured as depth of water on irrigated area
 - (c) may be supplied partly by precipitation and partly by irrigation
 - (d) all the above
- 5. The maximum permissible eccentricity for no tension at the base of a gravity dam is
 - (a) B/2

- (b) B/4
- (c) B/6
- (d) B/8

6.	In a chute spillway, the f	low is usually			
	(a) uniform	(b) subcritical	(c) critical	(d) supercritical	
7.	Irrigation canals are gene	erally aligned along			
	(a) ridge line	(b) contour line	(c) valley line	(d) straight line	
8.	Which of the following is the correct sequence of the parts of a canal system?				
	(b) head works, main	ibutary, branch canals a canal, branch canal, a canal, branch canal,	distributary and mino		
9.	For irrigation purposes, t	he p-H value of water	should be		
(a) between 3 and 6			(b) between 6 and 8		
	(c) between 8.5 and	11	(d) more than 11		
10.	The components of on fa	rm developments			
	(a) crossing in field(c) formation of field		(b) field drain(d) all the above		
		PART – B (3 x 8=	= 24 Marks)		
	(Ansv	ver any three of the f	following questions)		
11.	Explain briefly the classification of soil water.				
12.	irrigation of the crop 12%, density of soil	o, if field capacity of	the soil = 30 %, pern tive depth of root zon	er to insure sufficient manent wilting point is $ne = 60 \ cm$, and daily (8)	
13.	What are the factors affecting the selection of type of dam? (3)			(8)	
14.	What is a cross drainage works? Explain any two cross drainage works with near sketches. (8)				
15.	Write notes on				
	(i) Participatory	rirrigation manageme	ent.	(8)	