Dog No .					
Reg. No.:					

Question Paper Code: 45106

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

Fifth Semester

Civil Engineering

14UCE506 - IRRIGATION ENGINEERING

(Regulation 2014)

Duration: One hour Maximum: 30 Marks

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

(Answer any six of the following questions)						
1.	The water utilizable by plants is available in soils mainly in the form of					
	(a) gravity water	(b) capillary water				
	(c) hydroscopic water	(d) chemical water				
2.	. The measure to remove water logging of l	and, is				
	(a) to reduce percolation from canals a	and water courses				
	(b) to increase outflow from the groun	d water reservoir				
	(c) both (a) and (b)					
	(d) neither (a) nor (b)					
3.	. The ratio between the area of a crop irrig	ated and the quantity of water required during				

- (a) delta (b) duty (c) base period (d) crop period
- 4. The consumptive use of water of a crop

its entire period of the growth, is known as

- (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 flow	w is usually						
	(a) uniform	(b) subcritical	(c) critical	(d) supercritical				
7.	The weed growth in a canal	l leads to						
	(a) decrease in silting	(b) decrease in discharge						
	(c) increase in discharg	(c) increase in discharge (d) increase in velocity of flow		city of flow				
8.	. When the irrigation canal and the drain are at the same level, then the cross drainage work is achieved by providing a							
	(a) aqueduct	(b) super-passage	(c) level crossing	(d) canal syphon				
9.	Canal outlets are also called	d						
	(a) canal escapes (b) canal modules							
	(c) canal off takes	(d) canal openings					
10.	10. For the repairing of an old but sound concrete lining, the lining preferred is							
	(a) shotcrete lining		(b) precast concrete	lining				
	(c) soil cement lining		(d) sodium carbona	te lining				
PART – B (3 x 8= 24 Marks)								
	(Answer any three of the following questions)							
11.	Explain the necessity of irrigation in a tropical country like India.							
12.	2. Discuss in detail the various factors affecting duty. (8)							
13.	Explain the selection of site for a dam and selection of type of dam. (8)							
14.	4. Define Lacey's regime theory. Explain its design procedure of a stable change							
	list the defects in Lacey	• •	2 1	(8)				
15.	Describe participatory	irrigation managem	ent system.	(8)				