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		Reg. No. :											
Question Paper Code: U9A77													
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024													
Open Elective													
Agricultural Engineering													
21UAG977 AGRICULTURAL WATER MANAGEMENT													
(Common To All Branches)													
(Regulations 2021)													
Duration: Three hours Maximum: 100 Marks													
Answer All Questions													
PART A - $(10 \text{ x } 1 = 10 \text{ Marks})$													
1.	1. Which one is going to find in Kennedy's theory? CO1-U												
	(a) Velocity	(a) Velocity (b) Pressure (c) Density						(d) Temperature					
2.	If the velocity is less		CO1-U										
	(a) silting	a) silting (b) scouring (c) erodible						(d) non erodible					
3.	The time period from the sowing of the crop to the instant of its CO1-U harvesting is called												
	(a) crop period	crop period (b) duty (c) base period			(d) delta								
4.	The entropy of rever						CO	1-U					
	(a) 0	(b) 1	(c) 2				(d) 3						
5.	Find the s _f values of	nd the s_f values of 0° C CO2-App											
	(a) 3	(b)1	(c) 2				(d) 0						
6.	Find the h _f value of 5				C	CO2-	App						
	(a) 30 kJ/ kg	(b) 21 kJ/ kg (c) 15 kJ/ kg				(d) 10 kJ/ kg							
7.	7. The joule Thomson co-efficient denotes as C								CO	1-U			
	(a) µ	(b) s	(c) t				(d) h						
8.	Charles law states that									CO	1-U		
	(a) vα S	(b) va R	(c) va 2	Р			(d) v	α Τ					

9.	During the sensible heating process, the relative humidity										
	(a) i	increases (b) decreases (c) constant (d) (
10.	The	The wet bulb depression is zero, when relative humidity is equal to									
	(a) 1	100% (b) 0% (c) 60% (d) 20%			0%						
PART - B (5 x 2= 10 Marks)											
11.	List any four limitations of Kennedy's Silt Theory										
12.	Define Primary and Secondary Distribution system										
13.	Explain the Assumptions for Markov model						CO1-U				
14.	What are the Issues and Problems in effective water uses in irrigation						CO1-U				
15.	Explain Water pricing National Water Policy (NWP)						CO1-U				
PART – C (5 x 16= 80Marks)											
16.							(16)				
	Or (b) Explain the Kennedy's theory in detail manner.					CO1-U	(16)				
	(-)						()				
17.	(a)	Explain in deta classify it.	il about the comma	and area with neat sketche	es and	CO1-U	(16)				
Or											
	(b)	Provide the rela	tionship between du	aty of water and delta of w	ater.	CO1-U	(16)				
18.	(a)	Explain in deta rainfall.	ail about the Marko	ov chain method for pred	icting	CO1-U	(16)				
			Or								
	(b)	Explain in deta crops.	ail about the crop	water requirement for dif	ferent	CO1-U	(16)				
19.	(a)	Explain land productivity in	l capability cla dicators in India.	ssification and agric	ulture	CO1-U	(16)				
			Or								
	(b)	Expand the ter	m LCC and explain	n in detail about it.		CO1-U	(16)				
20.	(a)	Infer the term s in India.	socio economic pers	spective watershed develop	oment	CO1-U	(16)				
	(b)	-	Or ail about irrigation ng in India and Isra	n conflicts water product el.	ivity	CO1-U	(16)				

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