Reg.	N	0:]			
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR																
							(AU'	TON	OMOL	JS)						
			B.Tee	ch III	Year	I Sem	ester]	Regul	ar Ex	amina	tions	Febru	uary-2	2021		
			Н	YDRC	DLOC	Y &	WAT		ESOU	RCE	S ENC	FINE	ERINO	G		
Time	3 ho	ours					(CIVI	n Eng	ineeri	ng)				M	ax Me	arke 60
T IIIC.	5 11	Juis						PA	RT-A					1416	<i>ux</i> . 1v10	uks. 00
					(Ai	nswer a	all the	Ouest	tions 5	$5 \ge 2 =$	10 M	arks)				
1	a	a What is precipitation? List out the various forms of precipitation.														2M
	b	Writ	e abou	it an A	quifu	ge?										2M
	c	Wha	t is ko	r dept	h?											2M
	d What is mass inflow curve?															2M
	e	Wha	t is di	versio	n dam	?		DAI								2M
					()	ncuar	all Ei	PA Vo Un	$\frac{\mathbf{KI} - \mathbf{B}}{\mathbf{ite} 5 \mathbf{v}}$	10 -	50 M	rka)				
					(P	IISWCI	ann			10 -	50 IVI	115)				
2	Evi	alain	with t	he hel	nofa	diagra	m the	hydro	logica	al evel	e with	comr	onent	e?		10M
4	LA	Jiani	with t		pora	ulagia	in the	nyurc ()R	u cyci		comp	Joneni	5:		10101
3	Ext	olain	the co	nstruc	tion a	nd lim	itatior	ns of u	nit hy	drogra	ph.					10M
								UN	IT-II	U	•					
4	a	Expl	ain gro	ound wa	ater w	ell and	basic a	issump	tions?							5M
	b	b With a neat sketch, explain Dupuit's theory for confined aquifer.														5M
	OR															
5	a	Expl	ain th	e nece	ssity a	and im	portan	nce of	Irrigat	tion.						5M
	b	Expl	ain in	detail	abou	t the m	ethod	s of in	nprovi	ng du	ty.					5M
								UN	T-III							
6	a	Expl	ain ar	ly thre	e irrig	ation e	efficie	ncies								6M
	b	Illus	trate a	bout (J.C.A	. and C	C.C.A									4M
7	Wr	ita th	o doci	an star	h h	ton nr	aadur	ia far	JK	tuno	follo u	rith fo	mula	- ?		101/
/	VV I	ne in	e desi	gii ster	J-0y-5	tep pro	Jeeuur			type	lans w	111110	mula	5:		TOW
Q	Fla	horate	about	cross	draina	a war	k and c	lotaila	d its tw	nes						101/
0	Lia	ooran		. 01055	urama	ge won	k anu c	ietanet (pes.						IUWI
9	ล	Writ	e a pr	ocedui	e for	calcula	ation c	of life	of a re	servoi	ir					5M
-	b Explain various types of reservoirs?															5M
	~			5				UN	IT-V							
10	Cla	ssifv a	all the	variou	s class	ificatio	ns of d	lams a	ccordir	ng to u	se in d	etail w	ith ske	tches.		10M
10		5						(DR	0						
11	a	Am	asonry	/ dam	6 m h	igh an	d 1.5 r	n wid	e at th	e top a	and 4.	5 m w	vide at	the bo	ottom,	6M
		with	vertic	al face	e. Det	ermine	e the n	ormal	stress	es at t	he toe	and h	neel fo	r reser	voir	
		emp	ty and	reserv	voir fu	ill con	ditions	s. Tak	e ρ=2.	4 and	c=1.					
	b	Expl	ain va	rious	mode	s of fai	lure o	fagra	avity d	am.						4M

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b Explain various modes of failure of a gravity dam.

END