Reg.	N	0:	- ^ Y Y A							1						
	SI	DDH	ARTI	HINS	TITU	TE O	FEN	GINE	ERIN	G&'	LECH	INOL	OGY::	PUTTUI	2	
				THIS	1110	ILO			OMOL		I LCI	INOL	our	101101		
		B.Te	ch III	Year	II Ser	meste				,	amin	ation	s Marc	h-2021		
					WA	TER	RESC	OURC	ES E	NGIN	EERI	NG-I	I			
							(Civi	il Eng	ineerii	ng)						
Time: 3 hours Max. Marks: 60															50	
	(Answer all Five Units $5 \times 12 = 60$ Marks)  UNIT-I															
1														l decided?		8 <b>M</b>
	b	Expl	ain the	e follo	wing:	(i) He	ad reg		,	i) Cro	ss reg	ulator			4	4M
2	9	Wha	t is a	'Cros	s_draii	nage v	vork's		)R	the w	arians	type	of Cro	occ_draina	go 6	6 <b>M</b>
4	а	work		CIUS	s-uran	lage v	age work'? What are the various types of Cross-drainage								ge (	)IVI
	<b>b</b> Explain the factors which affect the selection of the suitable type of Cross-drainage													ge 6	6M	
	work.															
	3 a What is the necessity of stream gauging? What are the factors to be considered in															
3	a							ging?	What	are th	e facto	ors to	be consi	idered in	8	8M
	h		ing a s			_										4 N /T
	<b>b</b> Explain the slope-area method. <b>OR</b>														4	4M
4	a	Into	a strea	ım, wi	th no	trace	of sal			salt s	olutio	n with	n a conc	entration	of 6	6 <b>M</b>
	a Into a stream, with no trace of salt initially, a salt solution with a concentration of 20 mg/c.c. is introduced at a constant rate of 2 litres per minute. The sample															
	collected at a downstream section sufficiently far away indicated an equilibrium salt														alt	
	concentration of 0.05ppm.Determine the discharge in the stream from this data.															<b></b>
	<b>b</b> Explain the stage-discharge curve.														6	6M
5	<b>UNIT-III a</b> What is 'Meandering'? What basic factors control the process of meandering?															CNA
3					_						•			ling type		6M 6M
	U	river		c diffe	rence	DCLW	cen a	iggrau	ing ty	pe or	TIVCI	and	uegrau	ing type	01 (	)1 <b>VI</b>
		11101						C	R							
6	a															6 <b>M</b>
			t is a 'i	-						_					6	6 <b>M</b>
								UNI	T-IV							
7			t is a r						• •							4M
	b	Wha	t are th	ne vari	ous in	vestig	ations	_		r reser	voir p	lannin	ıg? Expl	lain in det	ail. 8	8M
8	<b>OR a</b> Explain the method of calculating reservoir capacity for a specified yield, from the specified yield, from the specified yield.														ha C	O N /I
o	a		inflov			carcui	ating	i esei v	on ca	распу	101 a	speci	ned yie	ia, mom i	ne e	8M
	b			ne term 'flood routing'. What are the various methods of flood routing?											4	4M
								-	IT-V					Ç		
9	9 a Explain the classification of dams according to material of constru												uction.		4	4M
	b	Disci	uss the	physi	cal fac	ctors t	hat go	vern t	he sele	ection	of typ	e of d	am.		. 8	8M
4.0		OR a Discuss the various modes of failure of a gravity dam.														
10												•	. 1	D- '		3M
	b		nguisn ession						ım an	u a l	ngn g	gravity	dam.	Derive t	ne 4	4M
		capit		abeu I	or suc	n a un			D ***							

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