8M

4M

6M

6M

8M

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B.1	Гес	h III `	Year	II Sen	neste	r Reç	gular	ֆ Sup	plem	entar	у Еха	amina	ation	s Oc	tober-2	2020
					WAT	ER R	ESOU	JRCE	S EN	GINE	ERIN	G-II				
							(Civ	il Eng	ineerii	ng)						
Time:	3 h	ours											N.	Iax. N	Aarks: 6	0
					(A	Answe	r all F	ive Un	its 5 x	12 =	60 Ma	arks)				
								UN	IT-I							
1	a	a What do you understand by a 'Fall' in a canal? Explain the classification of falls.												8M		
	b	Wha	t is a '	Head	regula	ator'?	What	are the		ions o	of a hea	ad reg	ulato	r?		4M
•		Б. 1		cc .		c	,		OR .							ON #
2		-						ainage			1 .		1			8M
	D	Write	e a no	te on t	ne sei	ection	oi sui	itable 1	<i>7</i> 1	Cros	s-aran	nage v	vork.			4M
2		UNIT-II Explain with a neat sketch the method of measuring the velocity at a point in a 81														о ОМ
3	а	-						ieuioa	OI III	easum	ing the	e veio	City	ai a j	omi m	a 8M
	b	stream using a current meter. • What are the data to be obtained from field measurements to determine the														he 4M
	~	discharge by slope-area method?														
			Ü	•				()R							
4	a	Sodium dichromate solution with a concentration of 25mg/c.c. is introduced into a stream at a rate of 1.5 litres/minute. The samples collected at a downstream section sufficiently far away indicated an equilibrium concentration of 0.001ppm. Determine the discharge in the stream. Assume no initial concentration of Sodium dichromate in the stream.														on n.
	b	b With a neat sketch, explain the principle of working of an 'Automatic stage													6M	
	recorder'.															
								UN	T-III							
5	a Explain the classification of rivers.b What is 'Meandering'? What are the causes of meandering?														6M	
	b	Wha	t is 'N	[eande	ring'	? Wha	t are tl			mean	dering	?				6M
		_)R	C						0.1
6	a			at sket	ch of	a suita	ible cr	oss sec	ction o	of a gu	iide ba	nk use	ed in	river	training	6M
	h	works. b What is a 'Pitched island'? Explain.													6M	
	J	* * 11a	. 15 u	1 110110	.a 1514	nu i L	Piuli		T-IV							0141
7	а	Expl	ain wi	th a ne	eat sk	etch t	he var	ious zo		l)	nge in	a resei	rvoir			8M
•		-						ow is i			.0- 111	5501				4M

b What is a 'Mass inflow curve'? How is it prepared?

OR

8 a Discuss various methods of reservoir sediment control.

b What is 'Flood routing'? Why is it carried out?

UNIT-V

a Explain the classification of dams according to use.

b Discuss the factors on which selection of site for a dam depends.

10 a Explain various forces that act on a gravity dam.

b What do you understand by the 'elementary profile' and 'practical profile' of a 4M gravity dam?