Printed	l Page	1 of 1										Sub	Coc	de: R	CEO
Paper	Id:	100744		Roll No:											
Time: .	B.TECH (SEM VII) THEORY EXAMINATION 2019-20 RIVER ENGINEERING Time: 3 Hours Total Marks:70														
		pt all Sections.	If require a	ny missing	data	a; tł	nen (choc	se s	uita					
	-	•	-			•					•				
1.	SECTION A Attempt all questions in brief										7 —	11			
a.	Attempt <i>all</i> questions in brief. 2 x 7 = Differentiate between Himalayan and Non-Himalayan river.										/	17			
b.	Define deltas.														
c.	Define time series analysis.														
d.	Explain bed load.														
e.	What do you mean by river erosion.														
f.	Explain the purpose of Groynes.														
g.	Define the use of guide bank.														
	1														
•	A 44		C41 C 11	SECTION	N B									7 2	21
2.	Atter	npt any three of discharge pas	of the follow	ving:	d ri	T/Or	4:1	72	m ³ /s	20	Date	i		7x3=	
a.	widt		sing tinoug	gii a ilicisc	u II	VGI	15	14.	111 / 8	ec.	Den	51 IIII	110 1	IICai	uei
b.	Explain the necessity of river restoration structures.														
c.	With the help of neat sketch explain bed forms.												XX		
d.	Differentiate between attracting and repelling groynes.														
e.	Explain the various purposes for which river training is required.														
				2								4	レ		
				,							K		,		
2	A 44 a ==		and of the fe	SECTIO	N C									71-	_7
3. a.	Attempt any <i>one</i> part of the following: 7x1 With the help of a neat sketch explain sedimentation.								7x1=	= /					
b.	Explain the various classification of river.														
<u> </u>	Lap	Tam the various	Classificati	011 01 111 01	•			2	\						
4.	Atter	npt any <i>one</i> pa	art of the fo	llowing:			0	9						7x	1=7
a.	Differentiate between flashy and virgin river.														
b.	Explain the structural and non structural majors for flood management.														
5.	Attempt any one part of the following:									7x1=	-7				
a.	Elaborate the mechanics of alluvial river. Explain the formation of delta.														
b.	Exp	lain the formati	on of delta	\circ											
6.	Atter	nnt any <i>ane</i> ne	art of the fo	llowing:										7x1	=7
a.	Attempt any <i>one</i> part of the following: Explain river restoration.									/ A I					
b.	Explain the term training for discharge.														
	1 T		<i>5 4</i>	<i>O</i>											
7.	Atter	npt any <i>one</i> pa	art of the fo	llowing:										7x	1=7
a.		erentiate betwe													
b.	Enli	st and explain	various type	s of river t	rain	ing	met	hod	S.						