Q.P. (Code: 16	CS505	5											R16	
Reg.	No:											7			
	SIDD	IART	H INS	STITI)F EN	GIN	EERI	NG &	TEC	HNO	– LOGY::	PUTT	TUR	
								IOMO		120					
	B.								-			ons Feb	-2021		
			ADV	ANC	ED DA						DUGH	C++			
Time	2 1				(0	Comm	on to	CSE &	& CSI	Г)			M	M 1 (0	
Time:	3 hours												Max	. Marks: 60	
					(Answ	er all			-	= 60]	Marks)			
							L	JNIT-	I						
1		at is de					•		it?					6M	
	b Exp	olain ho	ow co	nstruc	ctors an	e ove	rloade							6M	
	XX 71				0//0.	111 0		OR							
2	a Wha													6M	
	b Exp	lain sta	itic va	iriable	es with	the he	· -	and the second second						6M	
							-	NIT-I							
3		Vhat is abstract class? Define the rules to create an abstract class with example.													
	b What is code reusability? Explain it with "multi level inheritance"												6M		
4	What i	aanat	io tum	29 M	umoto f	imatia	n ton	OR	in da					1014	r
4	What is generic type? Narrate function templates in detail.													12M	L
-				C1 ·			U	NII-I	11						
5	a Writ				•		and the second bin and the second							6M 6M	
	b Write pseudocode to delete an element from binary tree. OR														
6	Illustrate BFS and DFS Traversing techniques on graph with pseudocodes.														1
U	UNIT-IV														1
7	a Exp	loin Di	nomi	al Uac	na wit	h an a			V					(M	
'	b Exp				-									6M 6M	
	U LAP		Jonac		aps wi		лат	OR						UIVI	
8	What is	s the u	se of l	hash f	unction	n? Nai	rrate a		anv 3 i	n deta	ail			12 N	1
U		s the th		idon i			-	UNIT-		in acti	***				
9	a writ	e abour	t B+ t	rees			Ľ		Ľ					6M	
	a write about B+ trees.b Construct a red-black Tree by taking following numbers in their sequence.														
		5,12,2,				•	•		6			sequen		6M	
	.,.	, _ <u>, </u> ,	, - ,	,	y- y- y -	<i>y= = yb</i>	.,,	OR							
10	Constr	uct an .	AVL	Tree ł	oy taki	ng fol	lowin		bers i	n their	r seque	ence.		12 N	1
	"4,65,1				-	-									

*** END ***