B. Tech. Sem - III (Inf. Tech.) (2014 COURSE) (CBCS) : SUMMER - 2019

SUBJECT: DATA STRUCTURES AND FILES

Day: Date:	Tuesday 14/05/2019		S-2019-2573		Time: 02.30 PM TO 0 Max Marks. 60	Time: 02.30 PM TO 05.30 PM Max Marks. 60	
N.B. :	1) 2) 3)	Figures t	tions are COM to the right industriable data if	icate FULL marks.			
Q.1		designation	, salary). Use		inployees (emp_id, emp_name, bes. Also, write a program to byee structure.	(10)	
				OR			
Q.1					e, Algorithm and Psuedocode? tack as a data structure.	(10)	
Q.2			_	xpression in Postfix:	into Postfix expression. Also,	(10)	
				OR			
Q.2				t data in Circular Queations of queue.	eue. Also, check for overflow	(10)	
Q.3			structure and th proper exam	•	the Double Link List. Explain	(10)	
				OR			
Q.3		Write a 'C' Link List.	code to insert	a number at the begi	nning and at the end in Single	(10)	
Q.4			•	ee (BST). Explain the enlist the application	e different cases to delete the of BST.	(10)	
				OR			
Q.4		Explain wit traversals of		mple, Breadth First S	Search and Depth First Search	(10)	
Q.5		Write an Al	gorithm for Se	election sort and Inser	rtion sort.	(10)	
.		OR					
Q.5		Write a 'C'	Code for Bina	_		(10)	
Q.6				e and Random Acces ntial File organization	s File organization. Write any n.	(10)	
				OR			
Q.6		probing with $h(x) = 0$	h replacement x%10. Calcu	strategy for collision late total number of	n table of size 10 using linear resolution. The hash function of comparisons required for 1, 13, 1, 2, 7, 12, 4, 8.	(10)	
			44.		.		