Roll	No.		Total No. c	of Pages : 02	
Tota	al No. of Questions :	16		-	
		B.Sc. (IT) / BCA DATA STRUC Subject Code : UG M.Code : 78	(Sem.–3) ΓURES CA-1915 181		
Time : 3 Hrs.			Max. Marks : 60		
INS 1. 2.	FRUCTIONS TO CANDI SECTION-A is COMPU each. SECTION-B contains Si to attempt any FOUR qu	DATES : ILSORY consisting of [*] IX questions carrying TI uestions.	ՐEN questions carrying EN marks each and stu	g TWO marks dents have	
				6	
		SECTION	-A)	
Wri	te briefly :				
1)	Dangling Pointer		NO.		
2)	Define Array				
3)	Big 'O' Notation				
4)	Define Stack	al front so			
5)	Hashing				
6)	Sparse Matrix 10 M	Xe.			
7)	Reverse Polish Notation	1			
8)	out-degree				
9)	Sorting				
10)	Recursion				
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SECTION-B

- 11) What is a pointer? How dynamic memory is allocated?
- 12) Explain depth first search and breadth first search in graphs.
- 13) How to convert in-fix notation into post-fix notation?
- 14) How complexity of an algorithm is checked? Explain its types.
- 15) What is a Queue? Write algorithm to insert and delete a node in circular queue.
- 16) What is BST? Explain its traversals with an example.

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NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

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