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URE AND ALGORITHMS	A STRUCT	DAT	
PC-CS201A			
[Maximum Marks : 7	ree Hours]	ime: Th	ìir
in Part A and Part B are compulsory our questions from Part C selecting a ion from each Unit.	Attempt any fo	A	Ne
Part A 1			
ring questions : 5×3=1	war the follow	Amor	1
ring questions: 5×3=1 between linear and non-linear dat		. Alisv	
between theat and non-meat date	structures.		
rations performed in splay tree.		(ii)	
and postfix expression for (A – B/C		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	D)/(A + B).		
differences between static and dynami	State and two	World (iv)	PPERW
cation.	memory allo		
plication of Warshal algorithm.	Write the ap	(v)	
Part B 2			
Unit I		-	
accumulator and counter in developin	uss the use of		2.

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P.T.O.

Unit II

Write algorithm to delete element in stack.

Unit III

Write algorithm for insert an element from a linked list

Unit IV

Write algorithm for insert an element in binary tree.

Part C

40

Unit I

Differentiate linear and binary search. Write algorithm for linear search.

10

Differentiate Insertion and radix sort with example.

Unit II

Derive equation to determine the time complexity of quick 8. 10 sort.

Differentiate doubly link list and circularly link list with 9. 10 example.

Unit III

- Discuss the dynamic implementation of queue with example.
- 11. Discuss the traversing of in single link list with example.

 10

Unit IV

- 12. Differentiate static and dynamic implementation of binary tree with example.10
- 13. Compare Prim's and Kruskal's algorithm with suitable example.