Data Structure and Algorithms: 2015

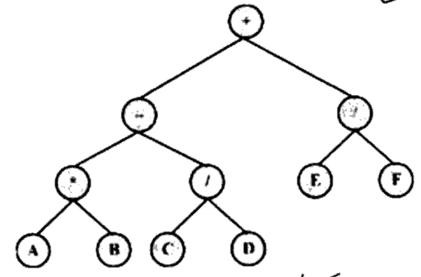
Section -'A' (Objective Type Questions)

Q.1.	Choose the correct answer. (i) Representation of data structure in memory is known as-	
www.rgpvmca.com	(a) Recursive	(b) Abstract data type
	(c) Storage structure (ii) Queue is a form of-	(d) Nonc
	(a) First in first out (FIFO)	
	(b) Last-in-first out (LIFO)	
	(c) Random manner	• •
	(iii) Which one is non linea	
	(a) Queue	(b) Linked list
	(o) Trac	(d) None
	(iv) Inorder traversal of binary tree	
	(a) Left Root Right	•
	(c) Lest Right Root	
	(v) The best average beha	
	(a) Quick sort	(b) Merge sort
	(c) Insertion sort	(d) Heap sort
	Section-B' (Short An	swer Type Questions)
Q.2.	Define types of array.	
Or	Define all types of Data Structure.	
Q.3.	Explain application of Stack	
0r	Discuss dequeue with examples.	
Q .4.	What do you mean by linked list?	
0r	What is circular linked list?	
Q.5.	Differentiate between tree and complete binary tree.	
()r	Explain binary search tree.	
Q.6.	Define Graph.	
Or	Differentiate between searching and sorting. Section-'C' (Long Answer Type Questions)	
Q .7.		and column-major order of two
	dimensional array accessing functions.	
Or	Define data structure? Writé its advantages and disadvantages.	
Q.8.	Write down the algorithm to insert an element in queue.	
()r	Transform the following infix expression to prefix and postfix	
	form (A + B)/D - E.	
Q.9.	Explain doubly linked v	vith its operation and write its
()-	. •	er linked list
Or	Write short notes on Heade	i miked use.

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Q.10. Define Tree. Write algorithm to insertion operation.

Or The following tree are traversal to preorder.



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O.11. Explain selection soft in details.

Or Write short notes on Depth first search.

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