Total no. of pages: 1. Fourth Semester	Koll NoB. Tech. [Bio-Tech]	
Mid Sem Examination	March- 2019	
CO-252	Data Structure and Algorithms	
Time: 1:30 Hours	Max. Marks: 20	
Note: Assume suitabl	e missing data, if any	
Q1. Evaluate the following p	oostfix expression using a stack and show the	
contents of the stack aft	er execution of each operation.	,
5,11,-	,6,8,+,12,*,/	2
Q2. An array T[50][20] is sto	red in the memory along the column with each of	
the elements occupying	4 bytes. Find out the base address and address of	
elements T[30][15]. If an	element T[25][10] is stored at the memory location	r
9800.	(2
Q3. Give the algorithm/ pse	udo-code to sort a list of number using insertion	
sort. Show steps for sort	ing the following list of numbers:	
32, 14,26,64,99,56,20,	3,44,and 11.	(4
Q4. Use Stack to convert the	e given Infix expression to postfix expression. Show	,
the details of Stack at ea	ich step of conversion.	(4
Expression: (a-b*c^d)*e	/f^g) (Note: ^indicates exponent operator.)	
Q5. Explain the difference b	etween stack and queue and also explain PUSH an	d
POP operation of stack.		(4
Q6. Write an algorithm to it	nsert and delete an element from circular queue.	(4
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