

Seat	
No.	

Total No of Pages: 03

Kamala College, Kolhapur

(Autonomous)

B.C.A. (Part-II) (Semester-III)

Examination March/April 2024.

Data Structure using C

Subject Code: CC 317

Total Marks: 80 Day and Date: Friday, 19/04/2024

Time: 12.00 p.m. to 03.00 p.m.

Instructions:

1. Question 1 and 8 is compulsory.

2. Attempt any four questions from Que. No 2 to Que. 7

3. Figures to the right indicate total marks for the question.

)(Q.1 Multiple choice Questions.	12
	1) Each Node contain minimum two field	lds one field called data field to store
	data. Another field is of type	
	A) Pointer to Class	B)Pointer to an Integer
	C) Pointer to Character	D) Pointer to Node.
	2) A linked list in which the last node of	Linked list points to the first is called
	a	
	A) Doubly Linked List	B) Singly Linked List
	C) Circular Linked List	D) A or B
3) Consider linked list is used to implement the Stack then which of the		nent the Stack then which of the
	following node is considered as Top of	of the Stack?
	A) Any Node	B) Last Node
	C) First Node	D) None of these
	4) In the stack, If user try to remove eler	nent from the empty stack then it
	called as	
	A) Empty Collection	B) Underflow of Stack
	C) Overflow of Stack	D) None of the above

B) Evaluate the following arithmetic infix expression using stack. 08 10*(8+4)-6/3Q 5 What is Stack? Explain its operations and its static implementation using array in detail. 16 08 Q 6 A) Solve the following example using Bubble sort. 25 93 59 B) Write a note on Selection sort with help of example. 08 Q 7 What is tree Data Structure? Explain the types of tree. 16 Q 8 Write short note on any four of the following. 20 1) Doubly linked list. 2) Applications of Stack. 3) Abstract Data type. 4) Linear Search. 5) Dynamic memory allocation. 6) Adding node into a singly linked list.

