P30/P32/P131/CMP215/CMP505/EE/20230117

Time: 3 Hours Marks: 80

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- 1. All Questions are Compulsory.
- 2. Each Sub-question carry 5 marks.
- 3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
- 4. Question paper of 80 Marks, it will be converted in to your programme structure marks.

1.	Sol	ve any four sub-questions.	
	a)	Describe Circular Linked Lists.	5
	b)	Explain class in CPP.	5
	c)	Describe Recursive LL.	5
	d)	Explain Queue with help of example.	5
	e)	Explain Merge sort.	5
2.	Sol	ve any four sub-questions.	
	a)	Explain stack with suitable example.	5
	b)	Explain any two methods used to evaluate Hash functions.	5
	c)	Explain following terms with example:	5
		i) Sibling	
		ii) Leaf Node	
	d)	Describe Unions in CPP.	5
	e)	Describe B-tree in data structure.	5
3.	Sol	ve any four sub-questions.	
	a)	Describe Insertion of node in Binary Search Operation.	5
	b)	Explain Quick Sort.	5
	c)	Describe DEQUEUE in detail.	5
	d)	Explain the concept of Circular Queue with example.	5
	e)	Explain hashing technique.	5

T. Solve any lour sub-question	4.	Solve any	four	sub-quest	ions.
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a)	Explain link list.	5
b)	Explain Binary Search Trees.	5
c)	Explain heap sort with example.	5
d)	Define object with suitable example.	5
e)	Distinguish between Stack and Queue.	5

