(6 pages)	Re	eg, No. :	2.	A do	ouble hashing method that produces different sion paths for different keys is
Code N	No.: 20513 E	20513 E Sub. Code : CACA 31		(a)	modulo (b) key offset
B.C.A. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.				(c)	probe (d) rehashed
Time : The Cho	Third So Computer Appl DATA STR For those who joined aree hours PART A — (10) Answer ALL cose the correct ans series of statemen	emester ication - Allied UCTURES I in July 2021-2022) Maximum: 75 marks × 1 = 10 marks) L questions.	3.4.5.	are ! (a) (c)	metadata (b) schema ellipses (d) none most powerful variation of linked list is multi linked list circularly linked list double linked list singly linked list adds an item at the top of the stack. pop (b) push top (d) stack top
stru (a) (c)	cture. data meta data	for the stack (b) value (d) key		Ea	PART B — (5 × 5 = 25 marks) er ALL questions, choosing either (a) or (b). ch answer should not exceed 250 words. Discuss Binary Search with algorithm.
the (a) (c)	root. sub tree depth	(b) level (d) height	. 12	(b) . (a)	Or Write about ADT. Give an example. Discuss the linear list operations. Or
ent (a)	ries for its height. binary	(b) binary search		(b)	What is meant by complex linked list? Discuss it.
(c)	complete	(d) none	13	. (a)	Describe about stack linked implementation.
9. An	An external sort uses memory.				Or
(a)	primary both (a) and (b)	(b) secondary (d) none		(b)	Write an algorithm of ADD, DELETE from a linked STACK.

14. (a)

example,

(c) both (a) and (b)

is known as_

median

key

(a)

10. Each iteration of the quick sort selects an element

(b) pivot

(d) value

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Write about expression trees with an

Or

Describe about the binary tree traversals,

(a) Discuss the basic concepts of sorting.

Or

(b) Describe the operations on graph.

PART C - (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain about algorithm efficiency

Or

- (b) Describe hashed list search with examples.
- 17. (a) Explain the linked list concepts.

Or

- (b) Define circular linked list. Discuss its algorithm.
- 18. (a) How to evaluate postfix expressions using STACK?

Or

(b) Define queue. Discuss about queue operations.

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(a) Write the Binary tree representation.

Or

- (b) Explain the basic beap algorithm
- (a) Write Quick sort algorithm. Explain with example.

Tr

(b) What are the external sorts? Discuss any one sort.

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