(i)	Printed Pages : 2	Doll No.
		Roll No
(ii)	Questions : 9	Sub. Code: 0 3 9 2
		Exam. Code: 0 0 0 4
	B.A./B.Sc. (0	General) 4th Semester
		(2053)
	COMPU	TER SCIENCE
		08-Data Structures
Tir	ne Allowed : Three Hours	[Maximum Marks: 30
No	te:—Attempt one question	n each from Sections A to D. Question
		compulsory. All questions carry equal
	marks.	
	SEC	CTION—A
1.	What do you mean by A	rray? Write an algorithm for Linear
•	search.	6
2.	What is stack? Write	e algorithms for POP and PUSH
	operations.	6
	SEC	TION—B
3.	What do you mean by L	inked List? How linked list can be
	represented in memory?	6
4.	What do you understand b	by Queue? Describe the applications

of queue.

## SECTION—C

5.	What do you understand by Graph? Explain the diffe	erence betw	veen	
	DFS and BFS.		6	
6.	What do you mean by Binary tree? Describe the	different	tree	
	traversal algorithms.	e_1	6	
	SECTION—D	117	18.	
7.	Define sorting. Explain the algorithm for Selec	tion sort	with	
	complexity.		6	
8.	What do you mean by searching? Explain the difference between			
	Linear search and Binary search.		6	
	SECTION—E			
	(Compulsory Question)			
9.	Write short notes on the following:—	er Krist es		
	(a) Merge sort.		2	
	(b) Doubly Linked list.		2	
	(c) Binary search tree.		2	