



SECOND ASSIGNMENT JUNE SEMESTER 2021

BACHELOR OF COMPUTER SCIENCE (HONS.) (IN COLLABORATION WITH IUKL)

DATA STRUCTURE AND ALGORITHM (CSC 2516)

LECTURER'S NAME : PRAKASH CHANDRA

GENERAL INSTRUCTIONS

- 1. This question booklet consists of 2 pages including this page.
- 2. There is one **SECTION** in this question booklet.
- 3. Please submit assignment solution in **SOFT COPY (PDF FORMAT).**





SECTION A (30 Marks)

This section consists of THREE (3) qu	lestions. Answer all question.
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1.	a)	Explain the concept of Linked List and advantages of Linked list over arrays.	
			(2 marks)
	b)	Write C program to implement: Insert, delete, search and display operations in sir linked list.	ngly
2.		ng STACK, convert the following infix expression into postfix expression: $(A+B)*C-(D-E)*(F+G)$	(8 marks)
NO		: use tables with proper heading and descriptions.	
			(5 marks)
3.	a)	List real world applications of doubly linked lists.	
			(5 marks)
	b)	Write a C program to implement queue data structure using linked lists.	
			(10 marks)

END OF QUESTIONS