GURUDAS COLLEGE INTERNAL EXAMINATION,2020 COMPUTER SCIENCE (HONOURS) SEMESTER II PAPER CC3 THEORY

GROUP A

Answer any 5(five) questions

1. Suppose the inorder and preorder traversals of a binary tree are as follows :	
Inorder : D B H E A I F J C G	
Preorder : A B D E H C F I J G	
Draw the binary tree.	5
2. What are the various operations that can be performed on different data structure? The linear and non linear data structures?	What are (2.5+2.5)
3. Write the algorithm for insert at beginning of a singly linked list.	5
4. Let X is declared as int x[2][3][5] and it supports column major representation of a What will be the starting location of x[1][2][3]. If integer takes two bytes?	rray. 5
5. Transform the following infix expression into its equivalent postfix expression : $A+(B*C-(D/E \uparrow F)*G)*H$	5
6. Write down the algorithm to insert and delete an element in to a Queue .	5
7. Write an algorithm to convert an infix expression to its equivalent post fix expressi	on. 5

GROUP B INTERNAL ASSESSMENT F.M=10

- 1. What is dynamic memory allocation? What is the basic difference between array and linked list? 2+3
- 2. a. What is abstract data type? Explain with an example.b. Why stack is used to implement recursive program?2.5X2

Send the Scanned answer scripts to the following mail id: csexam.cmsa3@gmail.com

F.M : 25