| | | COD | ING | 1 1 1 |
|----|--|-----------------------|--------|--|
| | Professional Course Examination (Od Semester : 3 Subject Code : BCA/3/CC/18 Subject : Bachelor of Computer Appl Name of the Paper : Data Structure using C Date of Examination : 14-11-2023 No. of Answer Sheet(s) Used : Full Marks : 75 | ications Lab (Prac | | CODING |
| | | | | To be filled in by the Candidate |
| | INSTRUCTIONS TO CANDIDATES Please read the instructions carefully before you start writing your answers. | Question Nos. | Marks | |
| 1. | Questions should be attempted as per instructions. | | | Date of Examination 14-11-2023 |
| 2. | Candidate should clearly indicate the Question Nos. and the Page No. for each sheet. | | | Semester : 3 |
| 3. | Please write your Roll No. and Registration No. clearly and correctly in the space provided. | | | Subject Code |
| 4. | Do not write your name or the name of your college/institution anywhere or anything else, which is not part of your answer. | | | Subject |
| 5. | Candidate should make sure that the answer sheets scanned should be legible. | | | Bachelor of Computer Applications |
| 6. | The Invigilator on duty should confirm that the correct script is received, compiled and attached to the correct Cover Page. | | | (Practical) |
| 7. | Multiple Choice Answer should indicate the Question No., Sub. No., (if any) and the correct answer. For example— | | | Roll No |
| | Name the state capital of Mizoram. (a) Lunglei (b) Champhai (c) Aizawl (d) Mamit | | | No. of Additional Sheet(s) : |
| | Candidate should provide answer as 1 (c) Aizawl | Tetal | | |
| | [Candidate should avoid writing only (c)] | Total | | 1 |
| | Scrutinizer's Signature Exam | iner's Sign | nature | I I X Invigilator's Signature /295 |

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BCA/3/CC/18

Professional Course Examination (Odd), 2023

(3rd Semester)

BACHELOR OF COMPUTER APPLICATIONS

Course No. : BCA/3/CC/18

(Data Structure using C Lab)

(Practical)

Full Marks: 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks: 30)

- I. Answer any two from the following :
 - 1. Search an element on a given list of integers using tower of Hanoi using recursive function.
 - 2. Write a C program to implement binary search.
 - 3. Write a C program using selection sort.
 - 4. Write a C program using bubble sort.

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[Contd.

15×2=30

SECTION-B

(*Marks* : 20)

- II. Answer any one from the following :
 - 1. Write a C program to simulate the working of a queue of integers using an array. Provide the following operations :
 - (a) Insert
 - (b) Delete
 - (c) Display
 - 2. Write a C program using dynamic variables and pointers to construct a stack of integer using linked list and to perform the following operations :
 - (a) Push
 - *(b)* Pop
 - (c) Display

The program should print appropriate messages for stack overflow, stack underflow and stack empty.

- 3. Write a C program to construct circular linked list :
 - (a) Insert
 - (b) Delete
 - (c) Display

SECTION-C

(*Marks* : 25)

III. Viva voce.

IV. Practical record book.

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