Tribhuvan University
Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2024

Bachelor in Computer Applications
Course Title: C Programming
Code No: CACS 151
Semester: II

Full Marks: 60
Pass Marks: 24
Time: 3 hours

Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions. [6×5 = 30]

2. What type of programming approach is followed by the C program? Write the necessary steps for the Program Development Life Cycle (PDLC). [1+4]

3. Is the break keyword mandatory in the switch statement? List the operators used in C based on utility. Explain the concept of a logical operator with an example. [1+1+3]

4. What is nested loop? Write the difference between formatted and unformatted I/O operations in C. [1+4]

5. What is DMA? List out the memory management function used in the C program. Using DMA, write a program to find the sum of N numbers. [1+1+3]

6. Write a C program to read a string from the keyboard and reverse it without using string handling function. [5]

7. What is the difference between a binary file and a text file? Write a C program to copy the contents of a student.txt file into another file called info.txt. [2+3]

8. What is the use of initgraph() in the C program? Write a C program to draw a circle, rectangle and ellipse using the graphics functions with a green background and red foreground. [1+4]

Group C

Attempt any TWO questions. [2×10 = 20]

9. Explain different method of passing argument to a function. Write a C program to print Fibonacci sequence up to n- terms using Recursive function. [2+8]

10. What is pointer? Write a C program that uses pointers to store cricket player's data(name, age, position and height) and display them. [2+8]

11. What do you mean by nested structure? Create a structure named Book with members ISBN, Tittle, author and price. Use this structure to read records of 10 books and display the record of book having highest and lowest price. [10]