Tribhuvan University

Faculty of Humanities & Social Sciences OFFICE OF THE DEAN 2020

Bachelor in Computer Application Course Title: C Programming

Code No: CACS151

Semester: II

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

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

Group B

Attempt any SIX questions.

 $[6 \times 5 = 30]$

- 2. What are keywords? Explain the compiling process of C program. [1+4]
- 3. Differentiate between iteration and recursion. [5]
- 4. Define an array? Write program to generate the following output using loop. [1+4]

1 1 2 1 2 3 1 2 3 4 1 2 3 4

- 5 Define operator. Explain any four types of operators available in C? [1+4]
- 6 Why function is required in C programming? Write a program to find smallest number from the array using function. [1+4]
- Why DMA is used in C language? Write a program to enter age of 20 students and count age between 18 and 25 from the array using DMA function. [1+4]
- 8 Write a C program to generate following output using graphics functions. [5]

Group C

Attempt any TWO questions.

 $[2 \times 10 = 20]$

- 9. What is union? Write a C program to enter **bid**, **title**, **price**, **pages** of 100 book into structure variable called **book** and sort them in descending order on the basis of their title with use of pointer. [2+8]
- 10. What is the use of data file in C? Write a C program to accept 100 numbers from user and store them in **odd.txt** file (if number is odd) or **even.txt** file (if number is even) then display odd numbers reading from **odd.dat** file. [1+9]
- 11. What do you mean by System Design Tools? Explain any four system design tools with suitable example. [2+8]