Only for 2021 AD admitted Regular Students

TRIBHUVAN UNIVERSITY FACULTY OF MANAGEMENT

Office of the Dean

Pass Marks: 30 Time: 3 Hrs.

Full Marks: 60

August 2022

BIM/ First Semester/IT 232: C Programming

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

Group 'A'

Brief Answer Questions:

[10×1=10]

- 1. Define algorithm.
- 2. List any two modes for opening a file.
- 3. What is the use of printf() function?
- 4. List arithmetic and logical operators available in C.
- 5. Define iteration.
- 6. Write a syntax to initialized 2D array in C.
- 7. What are the differences between array and structure?
- 8. What is the advantage of global variable?
- 9. What is the use of malloc() function?
- 10. Define string.

Group 'B'

Short Answer Ouestions:

 $[5 \times 3 = 15]$

- 11. Write a program to find the greatest of three number using functions. The function should expect three integers and return the greatest of them.
- 12. Read a string from the user and find the length of that sting using strlen() function.
- 13. Differentiate between while and do-while loop. Write a program to print the multiples of 5 less than 100.
- 14. Write a program that prints the following pattern

1 1 2 1 2 3 1 2 3 4

- 15. Write a program to find the factorial of a number N read from the user using recursive function.
- 16. Write a program to sort the numbers in an array.

Long answer questions: (Attempt any THREE Questions)

 $[3 \times 5 = 15]$

- 17. What does nested loop mean? Write a program to find the area of the rectangle after taking length and breadth as input from the user.
- 18. Write a program to read a string and copy it to anothre string in reverse format. Finally display the original string and the reversed string, without using string handling function.
- 19. Write a program to read an integer from the user. If the given interger is odd then write it into the file named "Odd.dat", othrwise write it into "Even.dat".
- 20. Give the syntax of the function in graphiscs that is used to draw a circle. Draw a flowchart to find the average of n numbers given by the user.

Group 'D'

Comprehensive Answer / Case / Situation Analysis Questions:

 $[2 \times 10 = 20]$

- 21. What do you mean by enumerations? Explain call by value and call by reference. Write a program to swap two floating type numbers using call by reference.
- 22. Create a structure that can hold the information of Book with bookID, title and price. Read and store N books in "book.dat" from the user. Display the title of the books having price<1000.