C–6451

BCA. DEGREE EXAMINATION, DECEMBER 2022

(FOR AFFILIATED COLLEGES)

(NEW REGULATION 2022 ONWARDS)

COMPUTER APPLICATION

FIRST YEAR – I SEMESTER

22UBCAC13   PROGRAMMING IN C

Time : 3 Hours   Maximum : 75 Marks

PART – A   10 x 2 = 20

Answer All Questions

1. Define variable.

2. Predict the output:
   int a=6,b=5,c;
   c=(a++ % 5) + b*3;

3. Give the syntax of if...else statement.

4. Compare break and continue statement.

5. What is recursion?

6. Give any two advantages of using pointer.

7. Define array.

8. How string is declared and initialized ?

9. How does union differ from structure?

10. Write the use of putw() and getw() function with example.

PART - B   5 x 5 = 25

Answer All Questions

11. a)   Write the basic structure of C program.

[OR]

    b)   Name and explain basic data types in C, with an example.

12. a)   Create a C program to find the largest among three numbers.

[OR]

    b)   Write the syntax of while statement and explain with example.

13. a)   Differentiate between call by value and reference.

[OR]

    b)   Create a C program to swap two values using pointers.

14. a)   Write a C program to find the smallest element in an array.

[OR]

    b)   Discuss the various string handling functions in C with example.

15. a) Define a structure called Hotel that will describe the following information Hotel name, address, grade, room charge. Write a C program to print a hotel name with room charges less than a given value.

[OR]

b) Write short notes on : fopen and fclose function.

PART - C

3 x 10 = 30

(Answer Any Three Questions)

16. Explain the various types of operators in C with example.

17. Write a C program to compute the sum of digits of a given integer number.

18. Explain the various categories of function with example.

19. Write a C program to add two matrix.

20. Discuss the file handling functions in C with example.

_____

C–6451