

I B.Tech I Semester Regular Examinations, May -2022
Programming for Problem Solving Using C
 (Com. to ECE, CSE, CSE-AI, AI & DS Branches)

Time : 3 Hours

Max. Marks: 70

Answer any five Questions one Question from Each Unit
All Questions Carry Equal Marks

UNIT –I

- 1 A) Discuss different computer languages with examples. 7M
 B) Write an algorithm for the sum of digits in a given number. 7M

OR

- 2 A) Describe the purpose of the qualifiers, constants, identifiers, and keywords with examples. 7M
 B) List the basic data types, their sizes, and range of values supported by c language. 7M

UNIT –II

- 3 A) Explain various iterative statements available in C language with examples. What is the difference between break and continue statements? 7M
 B) Discuss selection statements with examples? 7M

OR

- 4 A) Explain about switch statement. What is the importance of break and continue in the switch statement? 7M
 B) Write a table for operator precedence. 7M

UNIT –III

- 5 A) What is Array? Discuss the initialization and accessing of array elements in one dimensional and two-dimensional arrays. 7M
 B) Write a C program to perform the multiplication of two matrix. and write the expected output for the program? 7M

OR

- 6 A) What is a Pointer? Mention the advantages of pointers. How do you declare a pointer variable? Explain. 7M
 B) Write a C program to find the largest of two numbers using pointers. 7M

UNIT –IV

- 7 A) Explain different string handling functions available in C language. 7M
 B) Write a C program to concatenate two strings without using the strcat() function. 7M

OR

- 8 A) What are the two different techniques of passing arguments to function? Explain with example. 7M
 B) Write a C program to check whether the given string is palindrome or not? 7M

UNIT –V

- 9 A) Simulate the following sting functions a) strlen(), b) strcpy() 7M
 B) Distinguish between text and binary files. 7M

OR

- 10 A) What do you mean by command-line arguments? Give an example program. 7M
 B) Discuss, how a file can be opened in different modes. 7M