TB251172W

Reg. No :.....

Name :.....

BACHELOR'S DEGREE EXAMINATION, OCTOBER 2025

2025 ADMISSIONS REGULAR

SEMESTER I - MAJOR (COMPUTER APPLICATIONS)

CP1DSC01B24 - Fundamentals of Programming using C

Time : 2 Hours

Maximum Marks : 70

Part A

Answer all question from the bunch of CO1. Each question carries 2 mark. (2x1=2)

1. Cite High level programming languages with an example. [CO1,Understand]

Part A

Answer all question from the bunch of CO2. Each question carries 2 mark. (2x1=2)

2. Differentiate type conversion and type casting in C with eg. [CO2,Understand]

Part A

Answer all questions from the bunch of CO3. Each question carries 2 mark. (2x3=6)

3. Discuss about jumping statement. List any 2 jumping statements in C. [CO3,Understand]
4. Explain the different types of array. [CO3,Understand]
5. Differentiate exit() and return(). [CO3,Understand]

Part B

Answer any 2 questions from the bunch of CO3. Each question carries 6 mark. (6x2=12)

6. Explain the concept of enum and typedef with proper examples. [CO3,Understand]
7. State how do you declare and initialize strings. Discuss about the common operations performed on strings. [CO3,Understand]
8. Write a program to print the factorial of a given number. [CO3,Apply]

Part B

Answer any 3 questions from the bunch of CO4. Each question carries 6 mark. (6x3=18)

9. Write a program to count the number of vowels and consonants in a text string. [CO4,Apply]
10. Wire a program to count the number of digits in a number. [CO4,Apply]
11. Write a program to display the elements of an array in reverse order. [CO4,Apply]
12. Design a structure 'student' to contain name, roll_no, mark1, mark2, mark3. Write a program to calculate the total marks of each student and display it. [CO4,Apply]

Part C

Answer any 1 question from the bunch of CO1. Each question carries 15 mark. (15x1=15)

13. Write an algorithm and draw a flowchart to check if the given year is a leap year or not. [CO1,Understand]
14. Brief on the classification of tokens in C. [CO1,Understand]

Part C

Answer any 1 question from the bunch of CO2. Each question carries 15 mark. (15x1=15)

15. Explain the variants of 'if' statement with suitable examples. [CO2,Understand]
16. Explain the different datatypes in C. [CO2,Understand]