

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

October / November 2021 Supplementary Examinations

Programme: B.E.

Branch : ALL

Course Code: 18CS1ESCCP / 18CS2ESCCP

Course Title: 'C' PROGRAMMING

Semester : I / II

Duration: 3 hrs.

Max Marks: 100

Date: 29.10.2021

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any may suitably assumed.

UNIT - I

- 1 a) Explain flow chart and algorithm by considering any example for each. 10
- b) Define the following with example. 10
- i) token ii) keywords iii) identifier iv) variable v) constants

UNIT - II

- 2 a) Write a c program using do-while loop to check number n is prime number or not. 08
- b) If the ages of Ram, Sham and Ajay are input through the keyboard, write a program to determine the youngest of the three. 08
- c) Illustrate the working of do-while statement. 04

OR

- 3 a) Explain with example switch statement for construction of a simple calculator. 10
- b) Write a C program to check if triangle is equilateral, isosceles, or scalene of triangle taking 3 sides of a triangle as input? 10

UNIT - III

- 4 a) Explain the declaration and initialization of one dimensional array, with an example. 06
- b) Write a program to add and subtract elements of two matrices. 08
- c) Differentiate between call by value and call by reference. 06

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

UNIT - IV

- 5 a) Define strings. Develop a C code to concatenate two strings and determine the length of the concatenated string. 10
- b) What are structures? Considering any program, explain its working and usage. 10

OR

- 6 a) Write a program to convert characters of a string into upper case and vice versa. 10
- b) Illustrate structure within structure by considering any simple program. 10

UNIT - V

- 7 a) Define pointers. With syntax, explain pointer declaration and passing arguments to functions. 10
- b) What are files? Explain various functions used to read data from and write data into a file. 10
