

Seat No. _____

Enrollment No. _____

THE CHARUTAR VIDYA MANDAL UNIVERSITY
M.Sc. Physics – SEMESTER 4
SUMMER (REGULAR) 2022 EXAMINATION

Course Title: C Programming

Course Code: 101510401

Total Printed Pages : 02

Date: 11/04/2022

Time: 10.00 am to 12.00 pm

Maximum Marks: 60

Instructions:

- Attempt all questions.
- Numbers to the right indicate full marks for each question.
- Make suitable assumptions wherever necessary.

- Q. 1** Answer the following multiple choice questions. **(12)**
- (1) Which of the following is not a valid C variable name?
(a) int number; (b) float rate;
(c) int variable_count; (d) int \$main;
 - (2) All keywords in C are in _____
(a) LowerCase letters (b) UpperCase letters
(c) CamelCase letters (d) None of the mentioned
 - (3) What is an example of iteration in C?
(a) for (b) while (c) do-while (d) all of the mentioned
 - (4) What is #include <stdio.h>?
(a) Preprocessor directive (b) Inclusion directive
(c) File inclusion directive (d) None of the mentioned
 - (5) Types of Integers are.?
(a) short (b) int (c) long (d) All the above
 - (6) We cannot use the keyword 'break' simply within _____.
(a) while (b) for (c) if-else (d) do-while
 - (7) Choose a C Conditional Operator from the list.
(a) ? : (b) : ? (c) : < (d) < :
 - (8) Choose correct statement about Functions in C Language.
(a) A Function is a group of c statements which can be reused any number of times.
(b) Every Function has a return type.
(c) Every Function may no may not return a value.
(d) All the above.
 - (9) A function which calls itself is called a ___ function.
(a) Self Function (b) Auto Function
(c) Recursive Function (d) Static Function
 - (10) The C-preprocessors are specified with _____ symbol.
(a) # (b) \$ (c) " " (d) &
 - (11) What is the C keyword used to create global Constants.?
(a) constant (b) definition (c) def (d) define
 - (12) Which of the following function is used to find the first occurrence of a given string in another string?
(a) strchr() (b) strchr() (c) strstr() (d) strnset()

- Q.2** Attempt **any eight** of the following. **(16)**
- (1) Why and when do we use the #include directive?
 - (2) What is a variable and what is meant by the “value” of a variable?
 - (3) What is a data structure? Why an array is called a data structure?
 - (4) Differentiate variable and constant.
 - (5) List out the type of operators available in C.
 - (6) What is File? List out various file operations in C.
 - (7) Define: Program Testing, Program Coding
 - (8) How comments can be given in C program?
 - (9) Define Structure and Unions
 - (10) What is Recursion function?

Q. 3 List out and explain conditional statements in detail. **(08)**

OR

Q. 3 List out and explain looping statements in detail. **(08)**

Q. 4 What is Array? Explain various types of arrays in detail. **(08)**

OR

Q. 4 What is Function? Explain user defined function in detail. **(08)**

Q. 5 What is file handling? Explain different fopen() mode. **(08)**

OR

Q. 5 Write a note on Macro Substitution. **(08)**

Q. 6 Explain Program design and outline the program structure. **(08)**

OR

Q. 6 Write a note on common programming errors. **(08)**
