



A Charutar Vidya Mandal's Institution
V.P. & R.P.T.P. SCIENCE COLLEGE
 (AUTONOMOUS) (Grant-in-Aid)
 Affiliated to Sardar Patel University
 VALLABH VIDYANAGAR-388120



Bachelor of Computer Applications (Semester 1) External Examination - 2024
US01MABCA01: Programming Fundamentals Using C
Date: 19-11-2024, (Tuesday)
Time: 11:00 AM to 01:30 PM (2.5 hrs) **Total marks: 50**

Q-1 Write the most appropriate answer from the following multiple-choice questions.

[10]

- (1) _____ is a step by step approach to solve any problem.
 - (a) Process
 - (b) Programming Language
 - (c) Algorithm
 - (d) Compiler
- (2) C language is _____ language.
 - (a) High level
 - (b) Machine
 - (c) Assembly language
 - (d) Low level language
- (3) What is the standard decision symbol for a flowchart?
 - (a) circle
 - (b) lozenge
 - (c) diamond
 - (d) square
- (4) _____ is a valid variable name.
 - (a) int
 - (b) float
 - (c) 9Sum
 - (d) tot_sum
- (5) The size of int data type is _____ bytes.
 - (a) 2
 - (b) 4
 - (c) 8
 - (d) machine dependent
- (6) _____ format specifier used for integer data type.
 - (a) %e
 - (b) %f
 - (c) %c
 - (d) %d
- (7) _____ loop executes at least once.
 - (a) while loop
 - (b) do...while
 - (c) if
 - (d) for
- (8) In two dimensional array the first subscript specifies _____ size.
 - (a) Row
 - (b) column
 - (c) Vector
 - (d) All of above
- (9) '\0' is called _____.
 - (a) Null Character
 - (b) Character value
 - (c) Escape sequence
 - (d) Symbolic Constant
- (10) Reading single character from the keyboard _____ function is used.
 - (a) putchar()
 - (b) getchar()
 - (c) gets()
 - (d) putc()



Q-2 What is flow chart? List and explain all symbols used to draw a flow chart. [10]

OR

Q-2 What is Translator? List and explain types of translator in detail. [10]

Q-3 Draw and explain basic structure of C program with one suitable program. [10]

OR

Q-3 What is an operator? List all and explain any four operators with example [10]

Q-4 Explain all possible if statements (decision making statements/Conditional statements) with syntax and example. [10]

OR

Q-4 Define array and 1-D array. Also explain declaration and initialization of 1-D array with syntax and example. [10]

Q-5 Define string. List all and explain any four string handling functions with syntax and example. [10]

OR

Q-5 List and explain functions of header files with syntax and example [10]

===XXX===

