

Seat No.: _____

No. of printed pages : 02

[22]

Sardar Patel University
External Examination (CBCS)
M. Sc.(Integrated) (Information Technology) - 1st Semester
PS01CIIT03
Problem Solving Methodology and Programming in 'C'
25th October, Tuesday, 2016

Time: 10.00 am to 1.00pm

Total Marks: 70

Q-1 Select an appropriate option.

10

- 1 _____ is a step by step approach to solve any problem.
(a) Process (b) Programming Language (c) Algorithm (d) Compiler
- 2 What is the standard decision symbol for a flowchart?
(a) circle (b) lozenge (c) diamond (d) square
- 3 The translator program used in assembly language is called _____.
(a) Compiler (b) Interpreter (c) Assembler (d) Translator
- 4 The value can be changed during program execution is known as _____.
(a) Variable (b) Constant (c) Operator (d) None of these
- 5 _____ format specifier used for floating data type.
(a) %d (b) %f (c) %c (d) %e
- 6 The range of double data type is _____ bytes.
(a) 2 (b) 4 (c) 8 (d) 16
- 7 For declaring two- dimensional array _____ subscript is use.
(a) One (b) Two (c) Three (d) All of these
- 8 When we declare array _____ data type is use.
(a) int (b) float (c) char (d) All of these
- 9 A group of character is known as _____.
(a) String (b) Array (c) Function (d) All of these
- 10 _____ function is use to reading the string.
(a) scanf() (b) printf() (c) strev() (d) strlen()

Q-2 Answer the following questions. (Attempt any TEN)

20

- 1 Write advantages and disadvantages of flow chart.
- 2 What is an Editor? Give 3 examples of well known Editors.
- 3 List Languages for all generation.
- 4 Write Rules of variable name.
- 5 Explain printf() statement with example.

- 6 Explain ternary operator.
- 7 Explain break and continue statement in C.
- 8 Write difference between exit and entry controlled loop.
- 9 Explain structure programming.
- 10 What is string? List out the operation perform on the string.
- 11 Explain gets() function with syntax and example.
- 12 What is user define function? Give one example of user define function.

Q-3

- (a) What is an algorithm? Write advantages and disadvantages of an algorithm. 5
- (b) Write an algorithm to find out minimum from N numbers. 5

OR

Q-3

- (a) What is Flowchart? Explain rules to draw flowchart. 5
- (b) Write difference between Interpreter and Compiler. 5

Q-4

- (a) Explain Basic Structure of a C program. 5
- (b) What is operator? Explain different types of operators with example. 5

OR

Q-4

- (a) Explain basic data types used in C language. 5
- (b) Explain if..else & nested if statement with syntax and example. 5

Q-5

- (a) Define array? Also explain declaration of 1D and 2D array with syntax and example. 5
- (b) Explain while and for loop with syntax and example. 5

OR

Q-5

- (a) Differentiate between do-while, while and for loop. 5
- (b) Explain function with syntax and example: (i) pow () (ii) islower() 5

- Q-6 Define function? Explain the function categories with example. 10

OR

- Q-6 Explain the following library function with syntax and example. 10
- (i) strlen () (ii) strcmp() (iii) strcat() (iv) strrev()

