SARDAR PATEL UNIVERSITY
S.Y.B.Sc : SEMESTER – III
BIO INFORMATICS : US03CBNF01
Problem Solving Methodology and Programming in C
Date: 13/11/2013, Wednesday Time: 02:30pm to 05:30pm
Marks: 70

Q.1 Multiple choice of Question:

[1] _______ is a step by step approach to solve any problem.
(a) Process (b) Algorithm
(c) Programming Language (d) Compiler

[2] _______ is a pictorial representation of an algorithm.
(a) Data Diagram (b) Flow Chat
(c) Pie Chart (d) Program

[3] What is the standard decision symbol for a flowchart?
(a) circle (b) diamond
(c) lozenge (d) square

[4] The range of double data type is _______ bytes.
(a) 2 (b) 4
(c) 8 (d) 16

[5] Which of the following section is compulsory in C program?
(a) Main() (b) Definition
(c) Documentation (d) None of these

(a) %d (b) %f
(c) %c (d) %e

[7] In Array subscript can begin with number _______.
(a) Zero (b) One
(c) Three (d) None of these

[8] When we declare array _______ data type is use.
(a) int (b) char
(c) float (d) All of above

[9] A group of character is known as _______.
(a) String (b) Array
(c) Function (d) All of above

[10] The function putchar () requires _______ parameter.
(a) One (b) Two
(c) Three (d) Four

Q.2 Attempt any 10 questions:

[1] Write an algorithm to find maximum from given three numbers.
[8] Explain break and continue statement in C.
[9] Write difference between exit and entry controlled loop.
[10] Explain puts () function with syntax and example.
Q.3  [A] Explain different generation of computer languages.  
[B] Draw a flowchart to check whether inputted number is prime number or not.

OR

[B] Write an algorithm to check whether inputted number is prime number or not.

Q.4  [A] Explain Basic Structure of C program.  
[B] What is operator? Explain different operators with example.

OR

Q.4  [A] How variable can be defined in C? What are the different types of variables? Write difference between a variable and a constant.  
[B] Explain Escape sequence with example.

Q.5  [A] Explain following function with syntax and example. 
1. strcmp()  
2. strrev()  
[B] Explain if..else & nested if statement with syntax and example.

OR

Q.5  Explain looping statements with syntax and example.

Q.6  [A] Define function? Explain type of category used in c with example.

OR

Q.6  [A] Explain command line argument in c with example.  
[B] Explain function definition and function call with syntax and example