647510 **0307112C2020** **Seat No :_____**

P.G.D.C.A Semester - 1 (*CBCS*) Examination

Oct/Nov. -2018

PROBLEM SOLVING METHODOLOGIES & PROGRAMMING IN C(CORE)

Time: 2:30 Hours **Marks: 70**

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

Q-1(A) Attempt following questions. (04)

(1) _____ flow chart symbol indicate process in logic.

(2) A predefine meaning of a word, It is called _____.

(3) "12345" is a _____ type constant.

(4) Range of signed int data type _____ to _____.

Q-1(B) Attempt following (Attempt any one) (02)

(1) What is Dry-run?

(2) What is constant?

Q-1(C) Attempt following (Attempt any one) (03)

(1) Explain C Tokens.

(2) What is type casting? Explain types of type casting methods in C.

Q-1(D) Attempt following (Attempt any one) (05)

(1) Explain data types available in C.

(2) What is Operator? Explain types of operator supported by C.

Q-2(A) Attempt following questions. (04)

(1) _____ statement is called multi-branching statement in C.

(2) _____ statement terminate current executable loop.

(3) For(i=0;<=10;i+=5) when loop is terminated i reach at _____value.

(4) _____ statement transfer execution control at one place to another, where label is specified.

Q-2(B) Attempt following (Attempt any one) (02)

(1) What is loop?

(2) What is entry-control loop?

Q-2(C) Attempt following (Attempt any one) (03)

(1) Explain switch statement.

(2) Explain nested if-else statement with example.

Q-2(D) Attempt following (Attempt any one) (05)

(1) Explain nested for loop with suitable example.

(2) Explain leader else if statement with suitable example.

Q-3(A) Attempt following questions. (04)

(1) Users define function calling itself, it is called _____.

(2) Static storage class member default initialize with _____ value.

(3) Void simple(int) is called _____ types of UDF.

(4) Pointer variable always define _____ sign before variable name.

Q-3(B) Attempt following (Attempt any one) (02)

(1) Explain gets() and puts().

(2) Explain getc() and getch().

Q-3(C) Attempt following (Attempt any one) (03)

(1) Call by Value V/S Call by Reference.

(2) Explain malloc(), calloc() and free().

Q-3(D) Attempt following (Attempt any one) (05)

(1) Explain strcpy(), strcmp(), strcat(), strstr().

(2) Explain storage classes available in C.

Q-4(A) Attempt following questions. (04)

(1) _____ is a collection of elements with same type and same length.

(2) _____ DMA function allocates memory using two parameter.

(3) Structure declaration terminates using _____ sign.

(4) _____ operator used to access data member of structure.

Q-4(B) Attempt following (Attempt any one) (02)

(1) What is array?

(2) What is strcture?

Q-4(C) Attempt following (Attempt any one) (03)

(1) Structure V/S Union.

(2) Explain two dimensional array memory mamagement.

Q-4(D) Attempt following (Attempt any one) (05)

(1) What is nested structure? Explain nested structure with example.

(2) Write a program to get string from the user and check string is palindrome or not.

Q-5(A) Attempt following questions. (04)

(1) Fopen () take _____ number of arguments.

(2) File stream variable define using _____ type.

(3) File is not opened successfully then file pointer contain _____ value.

(4) _____ function release memory which is allocated using DMA.

Q-5(B) Attempt following (Attempt any one) (02)

(1) What is file?

(2) What is Pointer?

Q-5(C) Attempt following (Attempt any one) (03)

(1) Explain fopen() and fclose() function.

(2) Explain pointer within structure with example.

Q-5(D) Attempt following (Attempt any one) (05)

(1) Explain pointer to structure with example.

(2) Explain pointer to pointer with suitable example.

****