

P.G.D.C.A Semester - 1 (CBCS) Examination**Oct/Nov. -2018****PROGRAMMING IN C(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

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

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- Q-1(A) Answer the following questions.(All three) (03)
- (1) Who invented C language? Where?
 - (2) Give definition : Dry run
 - (3) Which special character is allowed for naming variable?
- Q-1(B) Answer the following question.(Any two) (06)
- (1) Write a short note on : Type Casting.
 - (2) Draw a flowchart to check that given number is positive, negative or zero.
 - (3) Write a short note on pre-processor in C language.
- Q-1(C) Answer the following question.(Any one) (05)
- (1) Explain C tokens. Describe all tokens with proper example.
 - (2) What is Operator? List out all operators available in C language. Explain any two of them.
- Q-2(A) Answer the following question.(All three) (03)
- (1) What is loop?
 - (2) Which loop is known as exit control loop?
 - (3) What is the output?
- ```
#include<conio.h>
#include<stdio.h>
Void main()
{
 int i;
 for(i=1;i<=10;i++)
 {
 }
 printf("%d",i);
}
```
- Q-2(B) Answer the following question.(Any two) (06)
- (1) List various types of "if" statements. Explain nested if with example.
  - (2) Write a short note : switch case statement in C language.
  - (3) Explain break and continue statements with example.
- Q-2(C) Answer the following question.(Any one) (05)
- (1) Describe while() loop and do.....while() loop with example.
  - (2) Write a program to print following output.
- ```
1
00
111
0000
11111
```
- Q-3(A) Answer the following question.(All three) (03)
- (1) Give difference between gets() and puts()
 - (2) Give difference between strcpy() and strcat()
 - (3) Give difference between gmtime() and localtime()

- Q-3(B) Answer the following question.(Any two) (06)
(1) What is Recursion? Explain it.
(2) Write down any three graphics functions.
(3) Describe storage classes available in C language.
- Q-3(C) Answer the following question.(Any one) (05)
(1) Explain call by value and call by reference with example.
(2) List all types of U.D.F. available in C language and explain any one with example.
- Q-4(A) Answer the following question.(All three) (03)
(1) Array index value is always start from _____
(2) How can we initialize structure?
(3) Give definition : Union
- Q-4(B) Answer the following question.(Any two) (06)
(1) Explain String Array with proper example.
(2) What is structure? Explain it.
(3) Write a program to enter any values from keyboard and print the sum of its digits.
(example : input is 4215, then output is 4+2+1+5=12)
- Q-4(C) Answer the following question.(Any one) (05)
(1) What is an array? Explain all types with details.
(2) Write a program to enter any 10 values from keyboard and print them in ascending order.
- Q-5(A) Answer the following question.(All three) (03)
(1) Define: Pointer.
(2) What is Data file?
(3) Pointer variable can store the value which given by user. True or False?
- Q-5(B) Answer the following question.(Any two) (06)
(1) Explain Command Line Arguments.
(2) Explain pointer to array with example.
(3) Explain pointer to structure with example.
- Q-5(C) Answer the following question.(Any one) (05)
(1) Write a program to swap two values using pointer and function.
(2) Explain important of file handing in C language. Also explain I/O operation in File Handing.
