

P.G.D.C.A Semester - 1 (CBCS) Examination**Nov/Dec-2023 (SYLLABUS YEAR JUNE-2016)****PROBLEM SOLVING METHODOLOGIES & PROGRAMMING IN C(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. Figures to the right indicate marks.
 2. All questions are compulsory.
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- Que.1(A) Attempt The Following. (04)
1. In which laboratory C language was found?
 2. Who is developed C language?
 3. How many Keywords in C language?
 4. What is flow chart?
- Que.1(B) Attempt Any One. (02)
1. Explain explicit Type casting.
 2. Explain ternary operator?
- Que.1(C) Attempt Any One. (03)
1. Write algorithm to calculate simple interest.
 2. Explain relational operator in detail.
- Que.1(D) Attempt Any One. (05)
1. Explain Primary Data type in C language.
 2. Different between Traditional C v/s Modern C.
- Que.2(A) Attempt The Following. (04)
1. Which loop is also known as exit control loop?
 2. Explain goto statement.
 3. Explain Break statement.
 4. Explain Continue statement.
- Que.2(B) Attempt Any One. (02)
1. Explain for loop.
 2. Explain do while loop.
- Que.2(C) Attempt Any One. (03)
1. Explain nested if else with example.
 2. Write a program to input a number and check that number is positive or negative.
- Que.2(D) Attempt Any One. (05)
1. Explain switch... case with example.
 2. Write a code for following output using while loop. 2 4 6 8 10
- Que.3(A) Attempt The Following. (04)
1. UDF stands for.
 2. Explain isupper().
 3. Which header file is used for strcpy().
 4. Which header file is used for sqrt().
- Que.3(B) Attempt Any One. (02)
1. Explain printf() and scanf().
 2. Explain strlen() and strcmp().
- Que.3(C) Attempt Any One. (03)
1. Explain gets () and puts().
 2. Explain Recursion function with example.

- Que.3(D) Attempt Any One. (05)
1. Explain Call by value and call by reference.
 2. Explain Storage classes in detail.
- Que.4(A) Attempt The Following. (04)
1. List out type of Array.
 2. Which keyword is used to define structure?
 3. Which keyword is used to define union?
 4. Which operator is used when structure variable is pointer type?
- Que.4(B) Attempt Any One. (02)
1. Explain string Array.
 2. Explain union.
- Que.4(C) Attempt Any One. (03)
1. Explain Two-Dimensional Array with example.
 2. Explain nested structure with example.
- Que.4(D) Attempt Any One. (05)
1. Explain Pointer with Structure.
 2. Explain Memory allocation function in detail.
- Que.5(A) Attempt The Following. (04)
1. Which symbol is used to declare pointer?
 2. Explain bof().
 3. Explain fseek().
 4. Explain ftell().
- Que.5(B) Attempt Any One. (02)
1. Explain Pointer to pointer.
 2. Explain fread() and fwrite().
- Que.5(C) Attempt Any One. (03)
1. Explain pointer within structure.
 2. Explain command line arguments.
- Que.5(D) Attempt Any One. (05)
1. Explain File handling with its different modes.
 2. Write a program that write a data in a text file and read data with the help of file handling function.
