

P.G.D.C.A Semester - 1 (CBCS) Examination**Jan/Feb. -2022 [OLD COURSE]****PROBLEM SOLVING METHODOLOGIES & PROGRAMMING IN C(CORE)****Time: 1:30 Hours****Marks: 42****Instructions:**

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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- Q.1(A) Answer the following questions. (04)**
1. In which year C language was found?
 2. What is Algorithm?
 3. What is dry run?
 4. What is Flowchart?
- Q.1(B) Answer the following question. (Any one) (02)**
1. Explain Arithmetic operator.
 2. What is Keyword?
- Q.1(C) Answer the following question. (Any one) (03)**
1. Explain Logical operator.
 2. Different between Traditional c v/s Modern c.
- Q.1(D) Answer the following question. (Any one) (05)**
1. Explain structure of c language.
 2. What is a data type? Explain in detail.
- Q.2(A) Answer the following questions. (04)**
1. Which loop executes itself atleast once?
 2. Which loop is also known as exit control loop?
 3. Explain Continue statement.
 4. Explain Break statement.
- Q.2(B) Answer the following question. (Any one) (02)**
1. Explain if else with example.
 2. Explain do while loop with example.
- Q.2(C) Answer the following question. (Any one) (03)**
1. Explain goto statement with example
 2. Explain for loop with example
- Q.2(D) Answer the following question. (Any one) (05)**
1. Explain switch... case with example.
 2. Write a code for following output.
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
- Q.3(A) Answer the following questions. (04)**
1. UDF stands for.
 2. DMA stands for.
 3. Which header file is used for strcmp().
 4. List out type of UDF.

- Q.3(B) **Answer the following question. (Any one)** (02)
1. Explain printf() and scanf()
 2. Explain floor() and ceil ().
- Q.3(C) **Answer the following question. (Any one)** (03)
1. Explain Call by value and call by reference.
 2. Explain Recursion function with example.
- Q.3(D) **Answer the following question. (Any one)** (05)
1. Explain any five Date & Time function.
 2. Explain Storage classes in detail.
- Q.4(A) **Answer the following questions.** (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 brackets is used to define an Array?
- Q.4(B) **Answer the following question. (Any one)** (02)
1. Explain One-Dimensional Array.
 2. Explain union.
- Q.4(C) **Answer the following question. (Any one)** (03)
1. Explain Two-Dimensional Array with example.
 2. Explain structure with example.
- Q.4(D) **Answer the following question. (Any one)** (05)
1. Explain Array with Structure.
 2. Explain Memory allocation function in detail.
- Q.5(A) **Answer the following questions.** (04)
1. Which symbol is used to declare pointer?
 2. What is File Handling?
 3. Explain fopen().
 4. Explain fclose().
- Q.5(B) **Answer the following question. (Any one)** (02)
1. Explain Pointer to pointer.
 2. Explain getw and putw.
- Q.5(C) **Answer the following question. (Any one)** (03)
1. Explain pointer with array.
 2. Explain pointer with structure.
- Q.5(D) **Answer the following question. (Any one)** (05)
1. Explain command line arguments
 2. Write a program that write a data in a text file and read data with the help of file handling function.
