

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

Oct/Nov. -2019 - [OLD COURSE]

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.
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- Qts. 1 [A] Attempt The Following (04)
1. Full form of STDIO is ____
 2. C Language was developed in AT&T Bell Lab in year ____
 3. Format identifier “%d” is used for ____ data type
 4. ____ is the father of C Language
- Qts. 1 [B] Attempt The Following (Any One) (02)
1. Explain: Dry Run
 2. Explain: Type Casting
- Qts. 1 [C] Attempt The Following (Any One) (03)
1. Write a note on: Keywords and Constant in C
 2. Write a note on: Various Operators in C
- Qts. 1 [D] Attempt The Following (Any One) (05)
1. Write a detail note on: C Tokens and Flow Chart
 2. Explain: History of C and various Data types in C
- Qts. 2 [A] Attempt The Following (04)
1. In for(i=0; i<4; i++) i=0 is expression used as ____
 2. While is an ____ controlled loop.
 3. When a ____ statement is encountered inside a loop, the loop is immediately terminated and the program control resumes at the next statement following the loop.
 4. ____ Loop executes at least one time.
- Qts. 2 [B] Attempt The Following (Any One) (02)
1. What is Default statement?
 2. What is Goto?
- Qts. 2 [C] Attempt The Following (Any One) (03)
1. Discuss: if -- else
 2. Discuss: Nested if
- Qts. 2 [D] Attempt The Following (Any One) (05)
1. Explain: All three loops with example
 2. Explain: Switch, Break, Continue and Goto with example
- Qts. 3 [A] Attempt The Following (04)
1. ____ is variable that points the address of another variable.
 2. ____ is block of code that executes specific task.
 3. A ____ defines the scope (visibility) and life-time of variables and/or functions within a C Program.
 4. Full form of STDLIB is ____

- Qts. 3 [B] Attempt The Following (Any One) (02)
1. Write a syntax of calloc
 2. Explain: Free function
- Qts. 3 [C] Attempt The Following (Any One) (03)
1. Explain: Recursion
 2. Explain: Storage Class
- Qts. 3 [D] Attempt The Following (Any One) (05)
1. Explain: Any five String Library Functions with example
 2. Explain: Any five Math Library Functions with example
- Qts. 4 [A] Attempt The Following (04)
1. ___ a kind of data structure that can store a fixed-size sequential collection of elements of the same type.
 2. ___ is a user-defined data type in C language which allows us to combine data of different types together.
 3. A ___ is a special data type available in C that allows storing different data types in the same memory location.
 4. Structure within a structure is known as ___
- Qts. 4 [B] Attempt The Following (Any One) (02)
1. Define: Pointers with structure
 2. Explain: Array with structure
- Qts. 4 [C] Attempt The Following (Any One) (03)
1. Differentiate: Structure and Union
 2. Write a short note on Memory Allocation functions
- Qts. 4 [D] Attempt The Following (Any One) (05)
1. What is Array explain its types with example
 2. What is Structure? Explain Structure, Union and Pointer with example
- Qts. 5 [A] Attempt The Following (04)
1. In int (*ptr)[10]; ptr is a __ of 10 integers
 2. In char *arr[10]; arr is a array of ____
 3. In typedef int *ptr; ptr is an ____
 4. In char **argv; argv is a ____
- Qts. 5 [B] Attempt The Following (Any One) (02)
1. Define: Pointer to Pointer
 2. Define: Pointer within Array
- Qts. 5 [C] Attempt The Following (Any One) (03)
1. Explain with example: Pointer to Structure
 2. Explain with example: Pointer within Structure
- Qts. 5 [D] Attempt The Following (Any One) (05)
1. Write a detail note on: File handling and data files in C
 2. Explain: Pointer to Array with suitable example
