

P.G.D.C.A Semester - 1 (CBCS) Examination**Feb/Mar. -2021 (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) Attempt following questions. (04)
1. A pre-define meaning of a word, it is called _____.
 2. _____ never change its value during execution time.
 3. _____ types of token supported by C.
 4. _____ Symbol represent input and output in a flow chart.
- Q.1(B) Attempt following. (Attempt Any One) (02)
1. What is Keyword?
 2. What is Variable?
- Q.1(C) Attempt following. (Attempt Any One) (03)
1. What is constant? List out types of constant supported by C.
 2. What is Type casting? Explain explicit type casting with example.
- Q.1(D) Attempt following. (Attempt Any One) (05)
1. What is Flow chart? Explain flow chart symbols in detail.
 2. Explain data types supported by C.
- Q.2(A) Attempt following questions. (04)
1. _____ loop is called exit controlled loop in C.
 2. _____ statement terminate current executable loop.
 3. If a and b contain 20 and 15 values, then $c = a++ - ++b$. c initialize with _____ value.
 4. for($a=5; a \leq 101; a+=10$) when loop is terminate then a is reach at _____ value.
- Q.2(B) Attempt following. (Attempt Any One) (02)
1. What is loop?
 2. What is Ternary Operator?
- Q.2(C) Attempt following. (Attempt Any One) (03)
1. Explain nested if-else statement with an example.
 2. Explain break, continue statement with an example.
- Q.2(D) Attempt following. (Attempt Any One) (05)
1. Explain entry control loop with an example.
 2. Explain switch statement with an example.
- Q.3(A) Attempt following questions. (04)
1. C compiler always starts compiling from _____ function.
 2. Static Storage class member by default initialize with _____ value.
 3. Which string function is useful to copy of a string?
 4. A function is calling itself, it is called _____.
- Q.3(B) Attempt following. (Attempt Any One) (02)
1. What is Pointer?
 2. Explain strcmp() and strcat() string functions.
- Q.3(C) Attempt following. (Attempt Any One) (03)
1. Explain malloc(), calloc() and realloc() functions.
 2. Explain call by reference with an example.

- Q.3(D) Attempt following. (Attempt Any One) (05)
1. Explain types of storage classes available in C.
 2. What is UDF? Explain types of UDF available in C.
- Q.4(A) Attempt following questions. (04)
1. A[3][3] capable to store _____ elements in A variable.
 2. Structure is identified with _____ keyword.
 3. _____ is a group of elements with same type and same length.
 4. To store string into variable then we define array of _____ in C.
- Q.4(B) Attempt following. (Attempt Any One) (02)
1. What is an Array?
 2. What is Structure?
- Q.4(C) Attempt following. (Attempt Any One) (03)
1. Differentiate Structure V/S Union.
 2. Explain Two Dimensional Array memory management in detail.
- Q.4(D) Attempt following. (Attempt Any One) (05)
1. Explain Pointer with Structure with an example.
 2. Explain Nested Structure with an example.
- Q.5(A) Attempt following questions. (04)
1. _____ function open file stream in a file pointer variable in C.
 2. File pointer variable identified with _____ data type.
 3. *p = 10; this statement is invalid in C. (True / False)
 4. int *p=&a, a; this statement is invalid in C. (True / False)
- Q.5(B) Attempt following. (Attempt Any One) (02)
1. What is Data file?
 2. Explain fprintf() and fscanf() functions.
- Q.5 (C) Attempt following. (Attempt Any One) (03)
1. Explain Pointer to Array with an example.
 2. Explain fseek(), ftell() and rewind() functions.
- Q.5 (D) Attempt following. (Attempt Any One) (05)
1. Explain Command Line Argument with an example.
 2. Explain Pointer to Pointer with an example.
