

P.G.D.C.A Semester - 1 (CBCS) Examination**Nov/Dec - 2022 [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.

-
- Q.1 [a] Give the answers of following questions. [4]
1. What are strings?
 2. How many bytes integer occupied?
 3. What is algorithm?
 4. What keyword?
- [b] Attempt the following (Any One). [2]
1. List out data types in C.
 2. Explain C tokens.
- [c] Attempt the following (Any One). [3]
1. What is flowchart explain with advantage of flowchart.
 2. What is conditional operator? Explain in detail.
- [d] Attempt the following (Any One). [5]
1. Explain pre-processing in C.
 2. Difference between traditional and modern C.
- Q.2 [a] Give the answers of following questions. [4]
1. Which looping structure is known as entry control looping structure?
 2. What is use of break statement explain in one line.
 3. List out conditional statements in C.
 4. List all looping statements.
- [b] Attempt the following (Any One). [2]
1. Explain for loop in C.
 2. Explain if statement in C.
- [c] Attempt the following (Any One). [3]
1. Explain if...else statement.
 2. Explain do-while statement
- [d] Attempt the following (Any One). [5]
1. Explain switch...case with suitable example.
 2. Explain While statement with example.
- Q.3 [a] Give the Answers of following Questions. [4]
1. List any four math functions.
 2. What is function?
 3. What is the use of strcpy() function.
 4. Explain scanf().
- [b] Attempt the following (Any One) [2]
1. Explain malloc ().
 2. Explain strcspn() function with syntax.

- [c] Attempt the following (Any One) [3]
1. Explain toupper() & tolower() functions.
 2. Explain storage classes.
- [d] Attempt the following (Any One) [5]
1. Explain getc() gets() and getchar() with example.
 2. Explain Call by Value and Call by reference.
- Q.4 [a] Give the answers of following questions. [4]
1. What is union?
 2. What is structure?
 3. Full form of UDF.
 4. What is array?
- [b] Attempt the following (Any One). [2]
1. Explain Multi-Dimensional Array.
 2. Write syntax of structure.
- [c] Attempt the following (Any One). [3]
1. Explain string arrays.
 2. Explain structure in detail.
- [d] Attempt the following (Any One). [5]
1. Explain Array with pointers.
 2. Explain UDF in detail.
- Q.5 [a] Give the answers of following questions. [4]
1. What is file?
 2. Explain fopen().
 3. Explain fclose().
 4. Explain ftell().
- [b] Attempt the following (Any One). [2]
1. Explain pointer to pointer.
 2. Difference between r and r+ mode.
- [c] Attempt the following (Any One) [3]
1. Explain dynamic programming.
 2. Explain pointer to array.
- [d] Attempt the following (Any One) [5]
1. Explain command-line arguments.
 2. Difference between write and append mode.
