

P.G.D.C.A Semester - 1 (CBCS) Examination
Nov/Dec-2023 (SYLLABUS YEAR JUNE-2023)
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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Que-1(A) Answer the following: (04)

1. C was developed by _____.
2. What is a Keyword?
3. _____ sign is prefixed to mark a Preprocessor.
4. A float variable occupies 2 bytes in the memory : True/False

Que-1(B) Attempt the following. (any two) (10)

1. Differentiate between traditional C and modern C.
2. List and briefly explain : C Tokens
3. Explain Type Conversion with example. State how it differs from Type Casting.
4. What is Flow Chart? Explain with example.

Que-2(A) Answer the following: (04)

1. _____ is an example of exit controlled loop.
2. C allows nesting of multiple loops : True/ False
3. What is the use of 'break'?
4. How many iterations are done when we keep looping condition as while(1) ?

Que-2(B) Attempt the following. (any two) (10)

1. Explain if else if ladder with example.
2. Differentiate between while and do while loops.
3. Explain the use of 'go to' with example.
4. Explain switch...case with example.

Que-3(A) Answer the following: (04)

1. Give full form : UDF
2. What is a header file?
3. _____ function is used to take input of a single character at a time.
4. isalnum() returns either true/false : True/False

Que-3(B) Attempt the following. (any two) (10)

1. List various string functions. Explain any two with example.
2. List various date and time functions. Explain any two with example.
3. List and explain various storage classes.
4. Write a program to input a number. Make sure the input is numeric and positive. Generate its square root and cube and display. Use appropriate library functions.

Que-4(A) Answer the following: (04)

1. An array contains a number of elements, each of which is of same datatype :
True/False
2. What is string?
3. A double array named height[10] occupies _____ bytes in the memory.
4. We can declare user defined data type using _____.

Que-4(B) Attempt the following. (any two) (10)

1. Explain the concept of 2D array with example.
2. Explain with example : Nested structures
3. Differentiate between : structure and union
4. Write a program to take 10 integers from user. Write a function to accept these integers. Find out prime integers out of them and display them on the screen.

Que-5(A) Answer the following: (04)

1. What is a Pointer?
2. A float pointer can point to an integer variable: True/False
3. Write syntax to define a pointer to a string.
4. _____ function is used to write to a datafile.

Que-5(B) Attempt the following. (any two) (10)

1. Explain the concept and importance of data files.
2. What is Dynamic Programming? Explain the use of malloc() and free() with example.
3. What is Command Line Arguments? Explain with example.
4. Write a program to capture student data in Structure. Use pointer to take inputs and output.
