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B.C.A. I Semester
Examination 2024-25
PROGRAMMING IN C
Paper : I (BCA-101)

Time : 2 : 30 Hours]   [Max. Marks : 70

Note :– Attempt any *five* questions. All questions carry equal marks.

Q. 1. Attempt any *two* from the following :   [7×2=14]

    (a)   What is Compiler.

    (b)   C is a .... level language.

    (c)   In which Lab C language was developed.

    (d)   What do you mean by operators in C.

    (e)   Define call by value

    (f)   Define pointer.

    (g)   What is an array.

Q. 2. Attempt following :   [7×2=14]

    (a) What is the difference between the function malloc() and calloc() ?.

    (b) What is pre-process ? What is its advantages ? Explain any three pre-process in C.

Q. 3. Attempt following :   [7×2=14]

    (a) Why we use "File in 'C' Language" ? Explain the Operating modes of files.

    (b) Write a program to reverse the digit (e.g 1234 == 4321)

Q. 4. Attempt following :   [7×2=14]

    (a) What is function ? Write a program to swap two number using function.

    (b) What is structure ? Write a program which illustrates structure.

Q. 5. Attempt all from the following :   [7×2=14]

    (a) What is pointer ? Write a program to check prime number using pointer.

    (b) Write a c-program using functions to generate the Fibonacci series.

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Q. 6. Discuss lists in HTML. What are the different types of lists? Illustrate with examples: [7×2=14]

    (a) What is a token? What are different types of tokens available in C language? Explain.

    (b) Write a program to check whether a string is palindrome or not.

Q. 7. Write short notes on any *four* of the following:

[3.5×4=14]

    (a) Structure and union

    (b) DMA

    (c) File handling in C

    (d) Passing array to a function

    (e) Storage classes

Q. 8. Attempt following: [7×2=14]

    (a) Write a program to reverse your name using do while loop

    (b) Write a program to add two 3 × 3 matrix.

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