C Reg. No. : ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

Question Paper Code: U2204

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Second Semester

Computer Science and Engineering

21UCS204- Programming using C

(Regulations 2021)

(Common to Computer science and Design)

Duration: Three hours   Maximum: 100 Marks

Answer All Questions

PART A - (5x 1 = 5 Marks)

1. For 16 bit compiler allowable range for integer constant is   CO1- U

   (a) -3.4e38 to 3.4e38   (b) -32767 to 32768   (c) -32668 to 32667   (d) -32768 to 32767

2. Which of the following looping statements end with a semicolon?   CO2- U

   (a) While   (b) do while   (c) for   (d) None of these

3. An array of pointers is same as _____   CO3- U

   (a) pointers to array   (b) pointers to pointers

   (c) pointers to function   (d) pointers to structure

4. The Default parameter passing mechanism is called as   CO4- U

   (a) Call by value   (b) Call by Reference   (c) Call by Address   (d) Call by Name

5. Which of the following functions are used to write an integer to a file? CO5- U

   (a) fprintf()   (b) putw()   (c) putc()   (d) puts()

PART – B (5 x 3= 15Marks)

6. What do you mean by variables in 'C'?   CO1- U

7. What is the difference between for and while statement?   CO2- U

8. Write any four features of an array.   CO3- U

9. What is meant by recursion?   CO4- U

10. Write the two ways of accessing file in C.   CO5- U

<div align="center">PART – C (5 x 16= 80 Marks)</div>

11. (a) Explain in detail about the structure of a C program with an   CO1-U   (16)
        example.

<div align="center">Or</div>

    (b) Explain the different types of operators used in 'C' with necessary CO1-U   (16)
        program?

12. (a) Describe the different forms of if statement in C .Write a C   CO2-App   (16)
        Program using if then else ladder condition.

<div align="center">Or</div>

    (b) Explain in detail about 'for' statement with example and also   CO2-U   (16)
        discuss flow of execution.

13. (a) Develop a C Program to calculate the average marks of the class   CO3-App   (16)
        using Arrays?

<div align="center">Or</div>

    (b) Develop a C Program to Subtraction of two Matrix Using   CO3-App   (16)
        two-dimensional Arrays?

14. (a) Explain in detail about structure with example?   CO5-U   (16)

<div align="center">Or</div>

    (b) Explain in detail about function prototype with example?   CO4-U   (16)

15. (a) Define file? Explain the basic operation of File processing in C? CO6-U   (16)

<div align="center">Or</div>

    (b) Explain the various Modes of File processing in C?   CO6-U   (16)

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