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Question Paper Code: U2204

B.E./B.Tech. DEGREE EXAMINATION, MAY 2024

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)

- 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
- Which of the following looping statements end with a semicolon? CO2- U
(a) While (b) do while (c) for (d) None of these
- 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
- 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
- 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)

- What do you mean by variables in 'C'? CO1- U
- What is the difference between for and while statement? CO2- U
- 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

PART – C (5 x 16= 80 Marks)

11. (a) Explain in detail about the structure of a C program with an example. CO1-U (16)
- Or
- (b) Explain the different types of operators used in ‘C’ with necessary program? CO1-U (16)
12. (a) Describe the different forms of if statement in C .Write a C Program using if then else ladder condition. CO2-App (16)
- Or
- (b) Explain in detail about ‘for’ statement with example and also discuss flow of execution. CO2-U (16)
13. (a) Develop a C Program to calculate the average marks of the class using Arrays? CO3-App (16)
- Or
- (b) Develop a C Program to Subtraction of two Matrix Using two-dimensional Arrays? CO3-App (16)
14. (a) Explain in detail about structure with example? CO5-U (16)
- Or
- (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)
- Or
- (b) Explain the various Modes of File processing in C? CO6-U (16)