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Question Paper Code: 92206

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Second Semester

Computer Science and Engineering

19UCS206– PROGRAMMING USING C

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Write a program to find the sum of first n natural numbers where n is entered by user .Note: 1,2,3.... Are called natural numbers. CO1- U
2. Write a C Program to Check Whether a Character is Vowel or consonant CO1- U
3. List out some features of C Language CO1- U
4. Differentiate Exit control and Entry control Loop CO2- U
5. Write a C program to generate integers in between 0 to 350(including 350) that are divisible by 7. CO2- U
6. How to declare and initialize the array? CO2- U
7. Write a C program to find n elements entered by user (where, n is specified by user), stores data in an array and calculates the average of those numbers. CO3- U
8. What are the uses of Pointers? CO3- U
9. State the advantages of user defined functions over pre-defined functions. CO4- U
10. List the various file modes used in C CO6- U

PART – B (5 x 16= 80 Marks)

11. (a) Explain the different types of operators used in 'C' with necessary program? CO1- U (16)
- Or
- (b) Explain in detail about the Structure of C program and define each section with a relevant example CO1- U (16)

12. (a) Explain in detail about ‘for’ statement with example and also discuss flow of execution. CO2- App (16)
- Or
- (b) Describe the different forms of if statement in C .Write a C Program using if then else ladder condition. CO2- App (16)
13. (a) Write a C Program to Find Transpose of a Matrix CO3- App (16)
- Or
- (b) Develop a C Program to Subtraction of two Matrix Using two-dimensional Arrays? CO3- App (16)
14. (a) Write a C program to add two distances (feet-inch system) entered by user. To solve this program, make a structure. Pass two structure variable (containing distance in feet and inch) to add function by reference and display the result in main function without returning it. CO4- App (16)
- Or
- (b) Explain in detail about function prototype with example? CO4- App (16)
15. (a) Write a C program to read name and marks of n number of students from user and store them in a file. If the file previously exists, add the information of n students. CO6- App (16)
- Or
- (b) Write a program for read and write operation using file? CO2- App (16)