

Reg. No. :

--	--	--	--	--	--	--	--	--	--	--

Question Paper Code: 92206

B.E./B.Tech. DEGREE EXAMINATION, MAY 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. Identify the use of ternary or conditional operator CO1 (Understand)
2. Write a C Program to Check Whether a Character is Vowel or consonant CO1 (Apply)
3. List out some features of C Language CO1 (Understand)
4. Differentiate Exit control and Entry control Loop CO2 (Understand)
5. 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. CO2 (Apply)
6. Write a C program to generate integers in between 0 to 350(includin350) that are divisible by 7. CO2 (Understand)
7. How to declare and initialize the array? CO3 (Understand)
8. 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 (Apply)
9. What are the uses of Pointers? CO3 (Understand)
10. State the advantages of user defined functions over pre-defined functions. CO4 (Understand)
11. A positive integer is entered through the keyword. Write a function factors(num) to obtain the factors of the given numbers CO4 (Apply)
12. Define structure and how it's different from union CO5 (Understand)
13. Write a C program that will receive a filename and a line of text as command line arguments and write the text to a file. CO6 (Understand)
14. List the various file modes used in C CO6 (Understand)

15. Write a C program to illustrate the use of rewind() functions CO6 (Apply)
PART – B (5 X 16 = 80 Marks)
16. (a) Explain in detail about the Structure of C program and define each section with a relevant example **CO1 U**
or
(b) Explain the different types of operators used in 'C' with necessary program? **CO1 U**
17. (a) Describe the different forms of if statement in C .Write a C Program using if then else ladder condition. **CO2 App**
or
(b) Explain in detail about 'for' statement with example and also discuss flow of execution. **CO2 App**
18. (a) Write a C Program to Find Transpose of a Matrix **CO3 App**
or
(b) Develop a C Program to Subtraction of two Matrix Using two-dimensional Arrays? **CO3 App**
19. (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 functionwithout returning it. **CO4 App**
or
(b) Explain in detail about function prototype with example? **CO4 App**
20. (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**
or
(b) write a program for read and write operation using file? **CO6 App**