

<b>F-5071</b>
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<b>Sub. Code</b>
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<b>7BCAA2</b>
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**U.G. DEGREE EXAMINATION, APRIL 2021 &  
Supplementary/Improvement/Arrear Examinations**

**Computer Application**

**Allied – PROGRAMMING IN C**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. Define constant and variable.
2. What are the types of programming languages?
3. What is an Array?
4. Write any Four String handling functions in C.
5. What is a recursive function?
6. What is the difference between a Structure and Union?
7. How will you declare a Pointer?
8. Write the scaling factors for int and float type data.
9. What is a file?
10. Define Macro.

**Part B**

(5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Explain the fundamental data types available in C with example.

Or

- (b) Explain while loop statement with example.

12. (a) Explain any Ten mathematical functions in C with example.

Or

- (b) Write a C program to count the number of odd numbers and number of even numbers in an array.

13. (a) Explain function with argument and no return type with a program.

Or

- (b) Explain nesting of functions with an example.

14. (a) What is a Pointer? What are the advantages of Pointer

Or

- (b) Write a C program to find the sum of the elements of an array using pointers.

15. (a) Explain various file opening modes.

Or

- (b) Explain any five File handling functions in C with example.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Write a C program to print the numbers that are divisible by four and not divisible by six, between 100 and 200.
17. How will you declare and initialize two dimensional array? Explain with an example.
18. Write a C program to calculate the net pay of an employee using array of structures. (Assume your own data)
19. Write a C program to find whether the given number is present in the array using pointers.
20. Write a C program to copy the content of one file into another file.

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