

<b>F-1736</b>
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<b>Sub. Code</b>
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<b>7BCAA2</b>
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**UG DEGREE EXAMINATION, APRIL 2019**

**Computer Application**

**Allied: PROGRAMMING IN C**

**(CBCS – 2017 onwards)**

Time : 3 Hours

Maximum : 75 Marks

**Part A**

(10 × 2 = 20)

Answer **all** questions.

1. What is an identifier? Give an example.
2. What are the types of programming languages?
3. How many elements (maximum) can be stored in the declaration? `float xyz[3][4];`
4. How will you write strings to screen?
5. What do you mean by scope of a variable?
6. What is the main difference between a Structure and array?
7. How will you declare pointers? Give example.
8. Write the scaling factors for int and float type data.
9. What is a random access file?
10. Define Macro.

**Part B**

(5 × 5 = 25)

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

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

Or

- (b) Explain the nested-if statement with example.

12. (a) Write a C program to reverse the given string.

Or

- (b) Write a C program to find the sum of even numbers in the given array.

13. (a) Write a C program to find the sum of first ten natural numbers using recursion.

Or

- (b) Explain union with an example.

14. (a) Write a C program to find the sum of two numbers using pointers.

Or

- (b) Explain Pointers and arrays with an example.

15. (a) Explain the error handling during I/O operations with example.

Or

- (b) Explain any five compiler control directives in C.

**Part C**

(3 × 10 = 30)

Answer any **three** questions.

16. Explain the operators in C with example.
17. Write a C program to multiply two matrices. Check the compatibility.

18. Write a C program to calculate the net pay of an employee using structures. (Assume your own data)
  19. Explain Pointers and function with a program.
  20. Write a C program to copy content of one file into another file.
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