F–6223	Sub. Code
	7BCAA2

U.G. DEGREE EXAMINATION, NOVEMBER 2021

Computer Applications

***Allied* — PROGRAMMING IN C**

(CBCS – 2017 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. What is the difference between the branch and loop statements in C?

2. What are the bitwise operators available in C?

3. How will you initialize string variable?

4. What is an array? Give an example.

5. What are the advantages of user defined function?

6. Define Union.

7. What are the advantages of Pointer?

8. How will you access a variable using Pointer?

9. What are the various File opening modes available in C?

10. What is a Random access File?

Part B (5 × 5 = 25)

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

11. (a) Write a C program to count the numbers that are divisible by 3 and 6 between100 and 300.

Or

(b) Write a C program to solve the quadratic equation for all cases.

12. (a) Explain the string handling functions available in C with example.

Or

(b) How will you read strings from terminal? Explain with example.

13. (a) Explain nesting of function with an example.

Or

(b) Explain arrays within structures with an example.

14. (a) What is a Pointer? Explain Pointer arithmetic with an example.

Or

(b) Explain Pointer and Structure with an example.

15. (a) Explain I/O operations on files with example.

Or

(b) Explain command line arguments with an example.

Part C

$(3 \times 10 = 30)$

Answer any **three** questions.

16. Explain the various Data types available in C with example.

17. Write a C program to add two matrices.

18. Explain array of structures with a C program.

19. Write a C program to find the biggest element in the array using Pointer.

20. Write a C program to display the details of the student (name, class rollnum, height and weight) whose height greater than 176 cm. Assume that the file is an existing one.

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