



C23-EE-305

23138

BOARD DIPLOMA EXAMINATION, (C-23)
MARCH/APRIL—2025
DEEE – THIRD SEMESTER EXAMINATION
PROGRAMMING IN C

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. What is character set?
2. List various data types with examples.
3. What is conditional expression? Explain with simple example.
4. What is the purpose of break and continue statements?
5. Define two dimensional array and explain how it is declared and initialized.
6. Write a program in C to find the length of given string.
7. Define function and its use.
8. Differentiate between local and global variables.
9. Define structure.
10. Write a program in C to add two numbers using pointers.

PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and the criteria for valuation is the content but not the length of the answer.

11. Explain in detail input/output functions in C with examples.
12. Describe various decision making statements in C. Provide examples to explain how each one is used.
13. Discuss in detail the concept of nesting of loops in C. Write a program to print the factorial of a given number.
14. Write a program in C to add two 3X3 matrices using arrays.
15. Explain various string handling functions with examples.
16. Write a program in C to add three numbers using the concept of functions.
17. Define union in C. How does a union differ from a structure in terms of memory allocation and usage? Provide an example.
18. Write a program to add marks of five subjects of each student with name, pin and marks using structures.

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