



C23-EE-305

23138

**BOARD DIPLOMA EXAMINATION, (C-23)
OCTOBER/NOVEMBER—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. List any two data types used in C with examples.
2. What is the use of printf() function in C? Write the syntax.
3. Differentiate between Break and Continue statements.
4. Write the syntax of Do-While loop statement.
5. What is the difference between an array and a single variable?
6. Define String and give an example.
7. List the four storage classes supported by C.
8. What is the need for user defined functions in C?
9. Define Union.
10. Define pointer in C and write the syntax to declare a pointer variable.

PART—B

10×5=50

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

- 11.** Explain increment and decrement operators in C. 10
- 12.** Explain the working of if-else statement with an example programme. 10
- 13.** Write a C programme to print all even numbers from 1 to 100 using a loop statement. 10
- 14.** Write a programme to read 10 integer values to a one dimensional array and print them in reverse order. 10
- 15.** Write any four string handling functions and explain about any two. 10
- 16.** Explain about call by value and call by reference in passing the values to a function. 10
- 17.** Explain the declaration and initialization of structure in C with an example. 10
- 18.** Write short notes on the following : 5+5
(a) Pointer Arithmetic
(b) Pointer with arrays

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