



C23-EE-305

23138

BOARD DIPLOMA EXAMINATION, (C-23)
MARCH/APRIL—2026
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 six key words used in C.
2. Write a simple C programme to get the following as output.
“Hello, welcome to C Programming”
3. Differentiate While and Do-While in C.
4. Write a program to find the given year is leap year or not.
5. Define Array with an example.
6. State the difference between scanf() and gets() function.
7. State the advantages of user defined functions in C.
8. Differentiate Local and External variables in C.
9. Define Structure.
10. List preprocessor directives in C.

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 about any two types of operators in C. 10
- 12.** Explain about switch case with the help of a Programme. 10
- 13.** Explain the following : 5×2=10
(a) Nested if statement
(b) for loop
- 14.** Write a C programme to find the sum of elements of a single dimension array having 10 integer elements. 10
- 15.** Explain the following string handling functions in C : 5+5=10
(a) strcat()
(b) strcpy()
- 16.** Write notes on the following : 5+5=10
(a) Auto variables
(b) Static variables
- 17.** Explain the declaration, initialization of Union in C with an example. 10
- 18.** Explain the relationship between pointers and array with example. 10

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