



C23-EE-305

23138

**BOARD DIPLOMA EXAMINATION, (C-23)
OCTOBER/NOVEMBER—2024
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. Define Variables and Keywords. 1·5+1·5
2. List any 3 data types of C Language. 3
3. Write the syntax of For statement with an example. 3
4. What is the purpose of comma operator? 3
5. Define String with an example. 3
6. How to declare and initialize one dimensional array of 5 integer values? 3
7. Write the need for functions. 3
8. What is function prototyping? 3
9. Define Union and Pointer. 1·5+1·5
10. List any 3 Un-conditional pre-processor directives. 3

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 Arithmetic operators and Logical operators with examples. 10
- 12.** Write C program using Nested IF statement to print grades obtained in an exam. 10
- 13.** Explain the break and continue statements using sample C programs. 10
- 14.** Write a C program for matrix Multiplication. 10
- 15.** Explain string manipulation functions with examples (a) STRCPY
(b) STRCMP. 10
- 16.** Write C program to print a sentence using a function without parameters and without return values. 10
- 17.** Explain structure concept with a sample C program. 10
- 18.** Explain
- (a) Pointer Arithmetic 5
- (b) Parameter passing by Reference 5

★ ★ ★