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

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