

**6416****BOARD DIPLOMA EXAMINATION, (C-16)****MARCH / APRIL — 2021****DAEI — FOURTH SEMESTER EXAMINATION****PROGRAMMING IN C***Time* : Three Hours][*Maximum Marks* : 80**PART-A**

3×10=30

Instructions : (i) Answer **all** questions.
(ii) Each question carries **three** marks.
(iii) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

1. List preprocessor directives.
2. State the assignment statement.
3. Define nested loops.
4. Differentiate between break and continue statements.
5. Define an Array.
6. State the declaration and initialization of string variables.
7. List various standard built-in functions.
8. List the four storage classes supported by C language.
9. Define Structure.
10. Define Pointer.

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

11. Explain the structure of C language.
12. Write the syntax of while statement and explain with example.
13. Write a program to print fibonacci series using loops.
14. Explain accessing elements of two-dimensional arrays with sample program of matrix addition.
15. Write a C program to check whether the given string is palindrome or not.
16. Illustrate functions with no arguments with return values with a program to find sum and average of any five numbers.
17. Write a C program to find factorial of a given number using recursion.
18. Illustrate structures with a program to read and print a book database consisting of Title of book, author, no. of pages, price as fields.

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