



C16-AEI-403

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**BOARD DIPLOMA EXAMINATION, (C-16)
AUGUST/SEPTEMBER—2021
DAEI - FOURTH 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 high-level language and low-level language.
2. List the steps involved in executing the C program.
3. List decision-making statements.
4. Compare between for and do .. while loop statements.
5. List the function for reading and writing strings.
6. Define string.
7. State the need for user defined function.
- * 8. Differentiate between local and external variables.
9. Define a union.
10. Differentiate between address and dereferencing operators.

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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 the preprocessor directives : #define, #include by taking examples.
12. Write the syntax of switch statement and explain with example.
13. Write a program to display first n natural numbers using loops.
14. Explain accessing elements of two-dimensional arrays with sample program of matrix subtraction.
15. Explain the string handling functions strcat(), strcmp(), strcpy() and strlen() with examples.
16. Illustrate functions with arguments with no return values with a program to find sum and average of any 5 numbers.
17. Write a C program to find Fibonacci series using recursion.
18. Write sample programs to declare and initialize the pointers.

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