



C16-AEI-403

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BOARD DIPLOMA EXAMINATION, (C-16)
JANUARY/FEBRUARY—2022
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 and low-level language.
 2. List different data types used in C.
 3. Write the syntax of switch statement.
 4. Define nested loops.
 5. Define an array.
 6. List the functions used for reading and writing strings.
 7. State the need for user defined functions.
 8. List the four storage classes supported by C.
 9. Define a union.
 10. Differentiate 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 increment and decrement operators in C.
12. Write syntaxes of the following loop control statements in C : 5+5=10
(a) For
(b) Do-while
13. Write a program to display first n natural numbers using decision making statements.
14. Write a C program to find largest number in an array.
15. Explain any two string handling functions in C with examples.
16. Explain return values and their types in C programming.
17. Write a program to find factorial of a given number using recursion.
18. Write a program to declare and initialize the pointer.

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