



C16-AEI-403

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BOARD DIPLOMA EXAMINATION, (C-16)
OCTOBER—2020
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. List the preprocessor directives.
2. List the relational operators in C.
3. Write the syntax of 'for loop'.
4. State difference between 'break' and continue' statements.
5. How to declare a one-dimensional array in C?
6. Define string.
7. Define function prototype.
8. List the four storage classes supported by C.
9. Define union.
10. State difference between address and dereferencing operators.

PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Explain the increment and decrement operators.
12. Explain the following :
 - (a) if statement
 - (b) if else statement
13. Write a C program to display first n natural numbers using loops.
14. Explain any five functions used for reading and writing strings.
15. Explain the string handling functions with an examples.
16. Write a C program to find Fibonacci series using recursion.
17. Explain function declaration with an example.
18. Explain declaration, initialization, assignment of a structure variable.
