



C16-AEI-403

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BOARD DIPLOMA EXAMINATION, (C-16)
MARCH/APRIL—2018
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 logical operators used in C.
2. List the steps involved in executing the C program.
3. Write the syntax for while loop.
4. List the differences between break and continue statements.
5. Define a string with example.
6. Define an array. State how to declare two-dimensional array.
7. Define recursion.
8. State the need of user-defined function.

- * 9. List the differences between structure and union.
10. Define a pointer. Give example.

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) Explain increment and decrement operator used in C. 5
(b) Evaluate $4 \ 3 \ 5 \ 4 \ 3 \ 18$. 5
12. Write a C program to print Fibonacci series using loops.
13. Explain the following with syntax : 5+5=10
(a) If else statement
(b) For loop statement
14. Write a C program to sort the numbers in an array. 10
15. Define a string. Write a C program to reverse a string. 10
16. Define a function with syntax. List any five standard built in functions. 10
- * 17. Explain return values and their types. 10
18. Explain how to declare and initialize a structure with example. 10
