



C16-AEI-403

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BOARD DIPLOMA EXAMINATION, (C-16)
SEPTEMBER/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 relational operators used in C.
2. List any three preprocessor directives.
3. Define conditional operator.
4. Write the syntax for switch statement.
5. Define an array. State how to initialize one-dimensional array.
6. State the function of strcat()
7. Define a function.

- * 8. List any three standard built in functions used in C.
- 9. Differentiate between address and dereferencing operators.
- 10. State the need of structure variable.

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. Explain the structure of C program. 10
- 12. List the different types of loops used in C and explain any two. 10
- 13. (a) Write a C program to print first 10 natural numbers. 6
(b) Differentiate between for loop and do while loop. 4
- 14. Write a C program to find largest and smallest number in an array. 10
- 15. List and explain the functions used for reading and writing strings in C. 10
- 16. Define recursion. Write a C program to find factorial of a given number using recursion. 3+7=10
- 17. List storage classes in C and explain any two. 10
- * 18. Write a C program to read and print a book details with fields Book_Number, Title, Author and Price. 10
