



C16-CM-106/IT-106

6026

BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—2017

DCHST—FIRST YEAR 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. Write the structure of C program.
2. Define data type. List any two basic data types in C.
3. List any three input functions in C.
4. Write the syntax for if-else statement in C.
5. Illustrate the usage of break statement.
6. What is the need for array variable in C?
7. State the difference between strcat() and strncat().
8. Write the advantages of function in C.
9. What is pointer? Give the syntax to declare pointer variable.
10. How to declare a file pointer to a file?

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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 the criterion for valuation is the content but not the length of the answer.

11. (a) Describe precedence and associativity of operators.
(b) Explain the scope and lifetime of variable used in functions.
12. (a) Explain switch statement in C with example. 5
(b) Write a C program to print the given integer is even or odd. 5
13. (a) Explain while loop with syntax and example. 5
(b) Write a C program to find the sum of n natural numbers using while loop. 5
14. (a) Explain one-dimensional array with example. 5
(b) Write a program to print the given array elements. 5
15. (a) Explain parameter passing mechanisms in C. 5
(b) Differentiate between actual parameters and formal parameters. 5
16. Describe the concept of pointers to functions with an example.
17. Define structure. Explain how the structure members can be accessed with suitable example.
18. Write a C program to copy the content of file X.TXT to Y.TXT.
