



C16-CM/IT-106

6026

**BOARD DIPLOMA EXAMINATION, (C-16)**  
**SEPTEMBER/OCTOBER - 2020**  
**DCME—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. Explain the steps involved in executing a C program.
2. Write the character set of C program language.
3. Write the importance of printf() function in C program.
4. Write the syntax of switch statement.
5. Differentiate between while and do-while loop.
6. In what way an array is different from an ordinary variable?
7. State the use of strlen() and strcpy().
8. What are the formal and actual arguments?
9. List any three advantages of pointers in C.
10. Write about the concept of closing a file and closing all files.

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[ Contd...

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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 criteria for valuation are the content but not the length of the answer.

**11.** (a) Define an expression and show how to evaluate an expression with example. 5

(b) Define function. Write the uses of function. 5

**12.** Explain nested if-else statement in C with suitable program. 10

**13.** (a) Explain break, continue statements. 4

(b) Write a C program to print the following pattern : 6

```
1
1 2
1 2 3
1 2 3 4
: : : : up to n
```

**14.** What is an array? How to declare and initialize 1D-array and 2D-array? 2+2+2+2+2=10

**15.** What are the four storage classes in C? Explain with example. 10

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**16.** Explain how pointers can be used to access array elements with suitable example program. 10

**17.** Explain how to find the size of structure and size of union with an example. 10

**18.** Explain any five pre-processor directives with examples. 10

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