6026

BOARD DIPLOMA EXAMINATION, (C–16)
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. List the steps involved in executing the 'C' program.

2. Define a keyword. List any six keywords in 'C'.

3. Write the syntax of printf( ) function and purpose of it.

4. Write syntax of simple if statement.

5. Define a loop. List the loop statements available in 'C'

6. How to declare and initialize a two dimensional array?

7. Write a program to read and print a string.

8. Classify the functions based on arguments and return type.

9. Define a pointer. How to declare and initialize a pointer?

10. Define a file. List any 3 file handling functions.

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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)* Write a program to find the smallest number in given two numbers using ternary operator (Conditional Operator).

(b) Write short note on different storage classes of variables.

12. Explain switch statement with an example program.

13. Write a program to find the largest of *N* given number using do-while loop.

14. Write a program to add two 2-dimensional matrices.

15. Write a program to find the factorial of a given numbers using recursion.

16. Explain how to pass pointer as a function argument with example.

17. *(a)* What is a self-referential structure? Give an example.

(b) Write the differences between structures and unions.

18. Write a program to create and display text file.

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