

6026

BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—2023

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. Define high level language with an example.
2. Define C tokens. Write any two C tokens.
3. How do you read a character using getchar() function?
4. Write the syntax for conditional operator.
5. Write the syntax for **do while** loop.
6. Write the procedure to initialize a two dimensional 3×2 array with the values 10, 20, 30, 40, 50, 60.
7. Distinguish between **scanf()** and **gets()** functions.
8. What is the importance of **void**?
9. Define pointer. List any two advantages of pointers.
10. Write the syntax for **fprintf()**. Give an example.

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

- 11.** (a) Explain increment and decrement operators with examples. 5
(b) What is recursion? Explain with a sample C program. 5
- 12.** Write the syntax for **if else if** ladder and explain with a sample C program. 10
- 13.** (a) Define a nested loop. Give an example. 4
(b) Write a C program to print the following triangle : 6
- ```
1
2 3
4 5 6
7 8 9 10
```
- 14.** Write a C program to read integer values to a one dimensional array and print the largest among them. 10
- 15.** Explain the functions with arguments and return value with a sample C program. 10
- 16.** Explain how to use pointers to a single dimensional arrays with a sample C program. 10
- 17.** Define Union. Explain how to declare and access members of union with a sample program. 10
- 18.** List and explain the purpose of any 5 preprocessor directives. 10

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