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C20-CM-IT-WD-CAI–106

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BOARD DIPLOMA EXAMINATION, (C-20)

FEBRUARY/MARCH —2022

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. Write the steps involved in executing a C program.

2. Write the rules for naming an identifier in C.

3. Write the syntax for formatted input statement.

4. Write a C program to find the area of a triangle.

5. Write syntax of if-else statement in C.

6. Write any three differences between break and continue statements.

7. Define an array. How to declare an array?

8. Write about declaration of structure variables.

9. Define pointer. Write the syntax for declaring pointer variables.

10. How to declare a file pointer to a file?

PART—B

8×5=40

Instructions : (1) Answer **all** questions.

(2) Each question carries **eight** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. *(a)* Draw and explain the structure of C program.

(OR)

(b) Define data type and explain data types in C with example.

12. *(a)* Define an operator and explain operators in C with example.

(OR)

(b) Write a C program to print sum and average marks of 3 subjects.

13. *(a)* Explain loop statements in C with examples.

(OR)

(b) Write a C program to perform arithmetic operations using switch statement.

14. *(a)* Write a C program to arrange array elements in ascending order.

(OR)

(b) Define structure. Explain how the structure members can be accessed with suitable example.

15. *(a)* Explain about functions with arguments and return value using an example.

(OR)

(b) Explain any four file handling functions.

PART—C

10×1=10

Instructions : (1) Answer the following question.

(2) Each question carries **ten** marks.

16. Write a C program to multiply two matrices using an array.

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