



C20-CM-WD-CAI-AIM-CCB-CCN-106

7026

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2024

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. What is identifier? Write any three rules for naming identifier.
2. Define variable. Write the syntax for declaration of a variable.
3. Write about islower () and tolower () functions.
4. Compare unary and binary operators.
5. Write a C program to check whether a given number is Even or Odd number.
6. Write about nested if-else statement.
7. Write about compile-time initialization.
8. Define union with an example.
9. Write about the elements of function.
10. Define recursion with simple example.

- 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) Explain about character set, C-tokens, keywords and constants.

(OR)

(b) Explain about the usage of type qualifiers in C.

12. (a) Explain various operations in C.

(OR)

(b) Explain about type conversion techniques with examples.

13. (a) Explain about loop statements in C.

(OR)

(b) Write a C program to generate any sixteen ASCII values.

14. (a) Write a C program to multiply two matrices.

(OR)

(b) Explain string handling functions.

15. (a) Explain accessing array elements using pointers.

(OR)

(b) Explain dynamic memory management functions.

PART—C

10×1=10

- Instructions :** (1) Answer the following question.
(2) The question carries **ten** marks.
(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 16.** Is it possible to establish relationship between arrays and pointers?
If yes, give one simple program. If no, give reasons to justify your answer.

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