

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

7026

BOARD DIPLOMA EXAMINATION, (C-20)

JANUARY-2023

DCM – FIRST YEAR EXAMINATION

PROGRAMMING IN C

Time : 3 hours]

[Total Marks: 80

PART—A

3×10=30

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- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
- 1. How to declare and initialize variables in C?
- 2. What is the need of data type? List any six data types in C.
- 3. Write a C program to find simple interest for a given principle amount, time and rate of interest.
- * 4. Write the differences between unary and binary operators.
 - 5. State the importance of break statement in switch case.
 - 6. Write a C program to find whether a given number is even or odd.
 - 7. Write the differences between structure and union.
 - 8. How to declare string variable? Write the syntax for reading string from terminal.
 - 9. Write about register and static storage classes.
 - 10. Write the syntax for declaration of file pointer to a file.

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[Contd...

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- Instructions : (1) Answer all questions.
 - (2) Each question carries eight marks.
 - (3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.
- 11. (a) Explain the steps to perform editing, compiling, executing and debugging in a C program.

(OR)

- (b) Explain the usage of type qualifiers in C.
- 12. (a) Explain bitwise operators with an example program.

(OR)

- (b) Explain type conversion techniques in C with example.
- 13. (a) Write a C program to print days of a week for a given days from 1 to 7 using switch case.

(OR)

(b) Explain loop statements with examples.

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14. (a) Write a C program to perform matrix multiplication.

(OR)

- (b) Explain string handling functions with example program.
- 15. (a) Explain function with arguments and return value with an example.

(OR)

(b) Write a C program to arrange array of elements in ascending order.
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Instructions : (1) Answer the following question.

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- (2) The question carries ten marks.
- (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- 16. Develop C program to create student structure with pin number, name and three subjects marks and find result percentage of students for a class of ten students and find topper of the class using array of structures and pointers.

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