



**C23-CM/CAI/CCB/CCN/AI/CIOT-106**

**23047**

**BOARD DIPLOMA EXAMINATION, (C-23)**

**OCTOBER/NOVEMBER—2024**

**DCME – FIRST YEAR EXAMINATION**

**PROGRAMMING IN C**

*Time : 3 hours ]*

*[ Total Marks : 80*

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**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 a keyword? List the keywords of C language.
2. What is a variable? Write the rules for naming a variable.
3. Write the differences between putchar() and puts() function.
4. Define conditional operator with syntax.
5. State the purpose of goto statement.
6. List various decision making statements.
7. Write the difference between scanf() and gets() function.
8. How to declare and initialize a two dimensional array?
9. Write the need of preprocessor directives.
10. Write the purpose of Address and De-referencing operator.

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[ Contd...

**PART—B**

10×5=50

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and the criteria for valuation is the content but not the length of the answer.

- 11.** Describe the structure of a C program with a neat sketch. 10
- 12.** Explain arithmetic, relational and special operators in C with examples. 10
- 13.** Explain nested for loop with an example program. 10
- 14.** (a) Write a C program that reads the number of the month and print the respective month name using switch case statement. 5  
(b) Write a C program to print the sum of odd numbers 1 to 100. 5
- 15.** Write a C program to find the given element is present in the array or not. 10
- 16.** (a) Write a C program to compare two strings without using string handling functions. 5  
(b) Write a C program to find the size of a structure and union. 5
- 17.** Explain about dynamic memory management functions. 10
- 18.** Explain different file handling functions. 10

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