

7219

BOARD DIPLOMA EXAMINATION, (C-20) OCTOBER/NOVEMBER—2023 DAEI – THIRD SEMESTER EXAMINATION

PROGRAMMING IN 'C'

Time: 3 hours [Total Marks: 80

PART—A

 $3 \times 10 = 30$

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 and low level language.
- **2.** Define identifiers and give two examples.
- **3.** Write the syntax of IF...ELSE statement.
- **4.** State the importance of decision making statements in programming.
- **5.** Define nested loops.
- **6.** Define an Array.
- 7. List any three functions used for reading and writing strings.
- **8.** List any three standard built-in functions.
- **9.** Define function call.
- **10.** Define structure.

PART—B 8×5=40

Instructions: (1) Answer either (a) or (b) from each question.

- (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 the increment and decrement operators.

(OR)

- (b) Explain the structure of C language program.
- **12.** (a) Write the syntax of switch statement and explain.

(OR)

- (b) Write a program to find the sum of given numbers using 'for' loop.
- **13.** (a) Write a program to find 3×3 matrix subtraction.

(OR)

- (b) Write a C program to find the largest number in an array.
- **14.** (a) Illustrate functions with arguments with no return values with a program to find the sum and average of any five numbers.

(OR)

- (b) (i) State the need for user defined functions.
 - (ii) Differentiate between local and external variables.
- **15.** (a) Explain accessing members of a structure with example.

(OR)

(b) Write a program to declare and initialize the pointers.

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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.** Write a program to find the check whether the given number is even or odd using decision making statements.

