

# 6416

## **BOARD DIPLOMA EXAMINATION, (C-16)**

## JUNE/JULY—2022

#### DAEI - FOURTH 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. State the function of preprocessor directives.
- 2. List the five arithmetic operators and give their precedence.
- **3.** Write the syntax of switch statement.
- **4.** Differentiate between break and continue statements.
- **5.** Write a 'C' program to reverse the given string handling functions.
- 6. List three string handling functions used in 'C'.
- 7. Define recursion.
- **8.** List various standard built in functions.
- **9.** Define the term union.
- **10.** Write a program to initialize the pointer.

## PART—B

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

11.	(a) Explain the structure of C language.	5
	(b) Explain bitwise logical operators.	5
12.	Write a program to display first $n$ natural numbers using 'do-while' loop.	10
13.	Write a program to print Fibonacci series using 'while' loop.	10
14.	Explain the functions used for reading and writing strings.	10
15.	Write a C program to find the smallest number in the array.	10
16.	Define a function. Explain return values and their types.	10
17.	(a) Differentiate between local and external variables.	6
	(b) List the four storage classes supported by C.	4
18.	Illustrate structures with a program to read and print a book database consisting of title of book, author, no. of pages, price as fields.	10



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