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BOARD DIPLOMA EXAMINATION, (C-16)

MARCH / APRIL — 2021 DECE — FOURTH SEMESTER EXAMINATION

PROGRAMMING IN C & MATLAB

Time: Three Hours] [Maximum Marks: 80

PART-A 3×10=30

Instructions: (i) Answer all questions.

- (ii) Each question carries three marks.
- (iii) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- 1. Define an expression and show how to evaluate.
- 2. List any three bitwise logical operators.
- 3. List three types of iterative statements supported by C.
- 4. Differentiate between if and if else statements in C.
- 5. State the use of return statement.
- **6.** List various arithmetic operators in pointer.
- 7. Write the steps to find the size of Union.
- **8.** What is the use of Union?
- 9. List various arithmetic and relational operators in MATLAB.
- **10.** Write the syntax of while loop in MATLAB.

PART-B $10 \times 5 = 50$

Instructions:

- (i) Answer any **five** questions.
- (ii) Each question carries ten marks.
- (iii) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- 11. Explain about operator precedence.
- 12. Differentiate between while loop and do-while loop with syntax and example along with flow charts
- 13. Write a C program to print the triangle using for loop

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1 2 3

- **14.** Explain the string handling functions.
- 15. Write a C program to swap values of two variables using functions.
- 16. Explain any five preprocessor directives with examples.
- **17.** (a) Differentiate between structure and union.
 - (b) Write a C program to find the memory occupied by the structure variable.
- Jel() lege **18.** Explain plot(), fplot(), xlabel(), ylabel() legend command with an example for each.