6436

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.

*

1

[Contd...

www.manaresults.co.in

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 1

- 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.
- 18. Explain plot(), fplot(), xlabel(), ylabel() legend command with an example for each.

* * * * *

*