6436
BOARD DIPLOMA EXAMINATION
MARCH/APRIL - 2019
DIPLOMA IN ELECTRONICS AND COMMUNICATION ENGINEERING
PROGRAMMING IN C & MATLAB
FOURTH SEMESTER EXAMINATION

Time: 3 Hours   **Total Marks: 80**

PART - A   (3m x 10 = 30m)

Note 1:Answer all questions and each question carries 3 marks

2:Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. List the bitwise operators in C

2. Write the syntax for declaring and initialization of a variable in C

3. Write the syntax of if-else statement in C

4. What is nesting of loops in C.?

5. Write any three differences between address operator (&) and dereferencing operator (*)

6. State the use of return statement

7. List any three pre-processor directives?

8. Write the declaration of *structure* variable?

9. What are the uses of simulink?

10. State the significance of MATLAB over other high level languages?

PART - B   (10m x 5 = 50m)

Note 1:Answer any five questions and each carries 10 marks

2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. a) Explain increment and decrement operators in C
    b) Describe various type conversion techniques in C.

12. (a)Write any three differences between *while* loop and *do-while* loop in C
    (b)Write a C program to find the sum of following series using *for* loop

    $$1^2+3^2+5^2+........+n^2$$

13. Write a C program to perform multiplications of two matrices

14. Write about the following string functions.
    (a) getchar() (b) getch() (c) getche() (d) putchar()

15. Explain about pointer arithmetic operations with suitable examples

16. Explain about the declaring and initializing *structure*?

17 Write a short notes on
    a.   #include
    b.   #define
    c.   #ifdef
    d.   #if
    e.   #elseif

18. Write short notes on the following operators in MATLAB

(a) Arithmetic

(b) Relational

(c) Logical

(d) Bit-wise logical

UNIT-5/Group2

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