6436
BOARD DIPLOMA EXAMINATION
JUNE - 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. What is an assignment operator in C ?

2. List the input/output formatted functions in C

3. State the importance of Conditional expression in C

4. Write any three differences between while and d–while statement in C

5. Write short notes on getch() function

6. Compare the syntaxes of putchar() and puts() function

7. State the advantage of *union* over *structure*?

8. Write about #define directive?

9. What are the uses of simulink?

10. Write the syntax of *if-end* statement in MATLAB

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. Explain the structure of C program

12. a) Write the syntax of switch– case statement in c
    b) Write a C program to check the given character is vowel or not
       using switch statement.

13. a) Explain how to declare and initialize array
    b) Write a C program add two matrices.

14. Explain about pointer arithmetic operations with suitable examples

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

16. Explain how to access the members of a *structure*?

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

18. Explain the following matrix operations in MATLAB with an example
    (a) addition
    (b) subtraction
    (c) transpose
    (d) multiplication
    (e) inverse

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