

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

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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*?

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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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