

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

$$1^2+3^2+5^2+\dots+n^2$$
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

- xxx -

A.A.N.M & V.V.R.S.R POLYTECHNIC GUDIAVALLERU, KRISHNA Dist, A.P

*

*