A-2999
Second Year B. Sc. (Sem. III) Examination
March / April - 2015
Applied Electronics : Paper - V
(Matlab)

Time : 2 Hours] [Total Marks : 50

Instructions :

(1) Fill up strictly the details of signs on your answer book.
Name of the Examination :
SECOND YEAR B. SC. (SEM. 3)
Name of the Subject :
APPLIED ELECTRONICS : PAPER - V
Subject Code No. : 2 9 9 9  Section No. (1, 2,.....) : NIL

(2) Question one is compulsory.
(3) All the symbols have conventional meanings.
(4) Assume data where ever necessary.
(5) Figures to the extreme right indicates full marks.

1 Write very short answers :

(1) What is the full form of Matlab ?
(2) Write an arithmetic expression for \( x^2 + 3x + 5 \) in Matlab.
(3) Give an example of Matlab command to create a row vector of three elements.
(4) Write a Matlab command to enter a \( 3 \times 3 \) matrix.

2 (a) Draw and discuss the Matlab desktop windows and its uses.
(b) Discuss the Matlab arithmetic operators.

OR

2 (a) What is Simulink ? Discuss how will you create Simulink model and put a sine wave block on Simulink.
(b) Show how the parameters of the sine wave block can be modified.

A-2999] 1 [Contd...
3  (a) Show how Matlab is useful for solving a set of linear equations.
    (b) Write a Matlab program to demonstrate matrix addition and multiplication.

    OR

3  (a) Explain the plot facility provided by Matlab.
    (b) Write a Matlab program which plots two cycles of sine wave.

4  Write Short notes: (Any two)  
(1) Hierarchy of Matlab operators
(2) Matlab Plots
(3) Simulink input blocks
(4) Matlab trigonometric functions.