



A-3005
Second Year B. Sc. (Sem. III) Examination
March / April - 2015
Electronics for Computer Science : Paper - V
(Matlab)

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दृशावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : S.Y. B.SC. (SEM. 3)</p> <p>Name of the Subject : ELECTRONICS FOR COMPUTER SCIENCE : P. - 5</p> <p>Subject Code No. : 3 0 0 5 Section No. (1, 2,.....): NIL</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center; padding: 10px;">Student's Signature</div>						

- (2) All the symbols have conventional meanings.
(3) Assume data wherever necessary.
(4) Figures to the extreme right indicate full marks.

- 1 Write very short answers : 8
- (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 3×3 matrix.
- 2 (a) Draw and discuss the Matlab desktop windows and its uses. 8
(b) Discuss the Matlab arithmetic operators. 6
- OR**
- 2 (a) What is Simulink ? Discuss how will you create a Simulink model and put a sine wave block on Simulink. 8
(b) Show how the parameters of the sine wave block can be modified. 6

3 (a) Show how Matlab is useful for solving a set of linear equations. **8**

(b) Write a Matlab program to demonstrate matrix addition and multiplication. **6**

OR

3 (a) Explain the plot facility provided by Matlab. **8**

(b) Write a Matlab program which plots two cycles of sine wave. **6**

4 Write short notes : (any **two**) **14**

(1) Hierarchy of Matlab operators

(2) Matlab Plots

(3) Simulink input blocks

(4) Matlab trigonometric functions.