

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)
B. Tech. Sem - VII Computer Science & Business Systems : WINTER: 2025
SUBJECT: ITC-V: IT WORKSHOP

Day : Wednesday
Date : 17/12/2025

W-24197-2025

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Explain MATLAB and its evolution as a programming language and environment for scientific computing. (10)

OR

Q.1 Explain the importance of planning your code before writing it in MATLAB. What steps you should take to outline your approach, structure your code and ensure that it meets the desired objectives efficiently? (10)

Q.2 Describe the methods for managing the workspace in MATLAB. (10)

OR

Q.2 How do you create and define variables in MATLAB, and what precautions should you take to avoid overwriting existing variables? (10)

Q.3 How do you create a matrix in MATLAB and what is the difference between entering a vector and entering a matrix? (10)

OR

Q.3 What are some common matrix operations and functions available in MATLAB, and how can they be used for tasks like matrix multiplication, transposition and inversion? (10)

Q.4 What are some essential components to consider when creating a simple plot in MATLAB? (10)

OR

Q.4 What is the purpose of annotations in data plots and how can you add them to your MATLAB plot? (10)

Q.5 What are the potential side-effects that you should be aware of when working with M-file Scripts in MATLAB? (10)

OR

Q.5 Explain the importance of operator precedence in MATLAB and provide an example to illustrate its significance. (10)

Q.6 What steps should you take to correct and end the debugging process once you have identified and fixed the issue in your M-file? (10)

OR

Q.6 What is it important to prepare for debugging before you start the process in MATLAB? (10)

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