

B. TECH. (COMPUTER SCIENCE & BUSINESS SYSTEMS) (CBCS - 2018 COURSE)  
B.Tech. (CSBS) Sem - VII : WINTER- 2022  
SUBJECT : Information Technology WORKSHOP

Day : Friday

Time : 02:30 PM-05:30 PM

Date : 09-12-2022

W-20478-2022

Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

Q. 1 Why MATLAB is called MATRIX LABORATORY and write down history of MATLAB. (10)

OR

Write down all strengths and Weaknesses of MATLAB. (10)

Q. 2 Write a MATLAB program to create variables, overwriting variables, error message. (10)

OR

How will you control the appearance of floating point number? Explain with help of suitable MATLAB program. (10)

Q. 3 Write a program in MATLAB to solve linear equations. Explain each steps. (10)

OR

Work down minimum 5 mathematical function in MATLAB and explain with help of MATLAB code. (10)

Q. 4 Explain Basic plotting features with MATLAB code like creating simple plots and annotations. (10)

OR

How to plot multiple data sets in one plot? Also explain line styles and colors. (10)

Q. 5 Describe Mfile scripts and explain script side effects. (10)

OR

Write MATLAB code for sorting of array using Bubble sort using "if\_\_\_end loop" and "for\_\_\_end loop" structure. (10)

Q. 6 Explain debugging process in detail. (10)

OR

Write short notes on: (10)

- i) Setting break points
- ii) Correcting and ending debugging