B. TECH. (COMPUTER SCIENCE & BUSINESS SYSTEMS) (CBCS - 2018 COURSE)

B.Tech. (CSBS) Sem - VII : : SUMMER - 2022 SUBJECT : IT WORKSHOP

Day: Tuesday
Date: 31-05-2022

S-20478-2022

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.

Assume suitable data, if necessary.

Q. 1 What are the basic features of Matlab? Explain the strengths and weaknesses (10) with help of examples.

Draw neat and labelled diagrams WHEREVER necessary.

OR

For building a software, which programmer practices you will follow? (10) Explain in detail with examples.

Q. 2 a) Explain in short, the hierarchy of operations in Matlab. (05)

b) Explain the maintaining the track of work session. (05)

OR

Write a Matlab program, showing: (10)

i) Matlab variables

3)

4)

ii) Overwriting variables

iii) Managing the work space

Q. 3 a) Write a program for addition of two 4×4 matrix using Matlab. (05)

b) Explain any of two mathematical functions with examples. (05)

OR

Explain any of four matrix operations with suitable code. (10)

Q. 4 a) Write a program showing ".tif" image file. Give the titles and labels for the (05) axis.

b) Write a program, showing multiple data sets in one plot and apply line styles. (05)

OR

Write a Matlab program, showing: (10)

i) Add salt and pepper noise

ii) Remove by using median filtering

iii) Show all the subplots in same figure

Q. 5 a) What are side effects of script? Explain M-file script. (05)

b) Explain "While end" loop with proper flow structure. (05)

OR

With the proper flow structure, explain: (10)

i) "if___end loop"

ii) "for___end loop"

Q. 6 a) Explain in short the debugging process. (05)

b) How to set the break points in an M-file? (05)

OR

How to examine values in M-file? Also, explain correcting and ending (10) debugging.

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