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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belagavi)
Fifth Semester, B.E. - Electrical and Electronics Engineering
Semester End Examination; February / March - 2022
MATLAB Programming (Technical Skills - I)

Time: 2 hrs   Max. Marks: 50

Note: All questions are compulsory and each question carries TWO marks.

Q. No.	Questions

1. _____ is the main window of MATLAB

    (A) Command window   (B) Plot Window   (C) Editor Window   (D) Simulink Window

2. Fundamental data type of MATLAB is_____

    (A) An array   (B) Matrix   (C) Set   (D) Determinant

3. The given set of file types is not included in MATLAB

    (A) M-files, mat-files, fig-files, p-files   (B) M-files, mat-files, fig-files, mex-files

    (c) M-files, fig-files, mex-files, p-files   (D) None of the above

4. Where is the default location of a newly created MATLAB files?

    (A) my documents / documents   (B) given directory

    (C) always need to give a directory   (D) no such default location

5. In any plot we are required to give the data for

    (A) x-label   (B) y-Label

    (C) title   (D) all of these

6. The command used to print the matrix

    $A = \begin{bmatrix} 10x & \ln x + \sin y \\ 2i & 3 + 2i \end{bmatrix}$ in MATLAB is

    (A) A=[10*x log (x) +sin(y); 2i 3+2i]   (B) A= [10*x 1n(x)+ sin (y); 2*i 3+2*j]
    (C) A = [10x 1n (x) + sin(y) 2i   3+2i]   (D) None of the above

7. _____ of the following can be used as extension name in MATLAB

    (A).slx   (B) .m   (C) .fig   (D) all of these

8. _____ are the set of commands used to find eigen values and eigen vector of a matrix 'A'

    (A) eig (A), eigvec   (B) eig (A), eigvec (A)

    (C) eig (A) eigval   (D) eig (A), eigvec (A)

9. The dairy command cannot be able to record the figures. Why?

    (A) Figure does not appear in command window   (B) Figures cannot be remembered by dairy

    (C) Dairy command does not recognize figures   (D) All of the above

10. What is the command used to see the stored values of variable x?

    (A) disp ( )   (B) disp (x)   (C) display   (D) view (x)

11. All functions written below the first function in the file are treated as _____

    (A) Nested functions   (B) Sub functions

    (C) Main functions   (D) Compiled functions

12. The command given to control the execution of scripts and functions are _____

    (A) break   (B) error   (C) return   (D) All of these

13. _____ is used to execute the values of any variable under different cases

    (A) for loop   (B) switch   (C) while loop   (D) if else if-else.

14. One of the following is a output function in matlab

    (A) fread   (B) sprint   (C) sscanf   (D) fgets

15. Which statement replaces the 1th column of matrix A in the following program:

    A=ones(10)

    For i=1:10

    disp (i)

    A(:,i)= A*(:, i);

    if i = =5

    keyboard

    end

    end

    (A) i= = 5   (B) A (:, i) = i*A (:, i);   (C) for I = 1:10   (D) none

16. _____ are built in functions for several matrix factorizations

    (A) LU, QR, Cholesky, svd   (B) LC, PQ, Cholesky, sd

    (C) LC, PQ, Cholesky, sd   (D) LV, PQ, SR, sd

17. _____ is the builtin function used to fit a polynomial equation.

    (A) polyfit ( )   (B) polyval ( )   (C) plot ( )   (D) None

18. "std" is the key word used to derive the

    (A) Standards   (B) Standard deviation   (C) Student data   (D) Standard time data

19. Syntax for integration is _____

    (A) integral = quad1('function', limits);

    (B) integral = quad1('function', limits, arguments)

    (C) integral = quad ('function', limits, arguments)

    (D) None

20. One the following is a utility function for ODE

    (A) odeset   (B) Ode 15s   (c) Ode 113   (D) Ode 23s

21. Basic command to produce a 2-D plot is

    (A) Plot (x,y)   (B) Plot (x,y, '_ _ _')

    (C) Plot (xvalues, yvalues, style-option)   (D) All of these

22. To draw a 2-D plot, we can choose the style of

   (A) Line style

   (B) style marker

   (C) Colour style

   (D) All of these

23. Command given to set the default square frame is

   (A) axis ('rectangle')

   (B) axis ('normal')

   (C) axis ('square')

   (D) axis (square)

24. _____ is the command used to create the plot with log scale on both x-axis and y-axis

   (A) log   (B) loglog

   (C) $\log_{10}$ (D) $\log_{10}\log_{10}$

25. _____ is the command used to draw a plot with 3-D mesh surface with frames.

   (A) meshc   (B) meshz

   (C) meshw   (D) mesh

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