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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; Feb. - 2021
Matlab Programming (Technical Skills - I)

Time: 2 hr. Max. Marks: 50

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

Q. No.	Questions	BLs	COs	POs
1.	Which character is used to print new line in an fprintf statement? a) \n b) \nl c) \nml d) \nxt	L1	CO1	
2.	_____ is not a pre-defined variable in Matlab a) inf b) pi c) I d) gravity	L1	CO1	
3.	File types not supported by MATLAB a) M-files b) Mat-files c) Fig-files d) Doc-files	L1	CO1	
4.	The correct way of writing $\log10(e^2)$ expression in MATLAB a) log10(exp(2)) b) log10(e^2) c) ln10(e^2) d) log10(exp^2)	L3	CO1	
5.	X = [1 2 3] , Y = [2; 1; 5] answer for the command X + Y is a) [3; 3; 8] b) [3 3 8] c) Error Message d) [2 2 15]	L3	CO1	
6.	The MATLAB code to create a vector *t* with 10 elements 1,2,3....10 and compute $x = t \sin(t)$ a) *t* = 1 to 10; $x = t *sin(t)$ b) *t* = 1:10;1 $x = t*sin2(t)$ c) *t* = 1:10; $x = t.*sin(t)$ d) *t* = 1−10; $x = t.*sin(t)$	L4	CO2	
7.	Command 'pwd' refers to a) Show working director b) Show password c) Show P-word d) Power-up	L2	CO2	
8.	The command used to plot 3-D parametric space curve a) ezplot3 b) 3DPlot c) ez3plot d) ezplot-3	L2	CO2	
9.	Among the following commands which one is not a valid help command in MATLAB a) help b) lookfor c) helpwin d) support	L2	CO2	
10.	What does Matlab stand for? a) Matrix laboratory b) Math laboratory Mathwork c) Mathematics Lab d) None of the above	L3	CO2	
11.	The symbol for logical complement is a)! b) ~ c) != d) NOT	L3	CO3	
12.	The Matlab command use to clear all data and variables stored in memory a) clc b) Clear c) Delete d) Deallocate	L3	CO3	

13. Which one of the following is a legitimate variable names in MATLAB?

    a) Eval4   b) Tax-rate   c) Exam   d) sin

    L2 CO3

14. Which of the following expressions generates an evenly spaced vector x containing 15 values between 4 and 20.
    a) $x = linspace(4,15,20)$ b) $x = linspace(15,4,20)$
    c) $x = linspace(4,20,15)$ d) $x = 4:15:20$

    L3 CO3

15. Which of the following is printed to standard output when the following expression is executed fprintf('max temp is %.2f degree',100.2345)
    a) 'Max temp is %.2f degree',100.2345   b) Max temp is %.2f degree 100.2345
    c) Max temp is 100.23 degree   d) Max temp is 100.2345 degree

    L3 CO3

16. The difference between a function and a script is:
    a) Only a function file can be run from the command line
    b) Only a script file can perform a series of commands
    c) Functions cannot save variable values
    d) Function variable names only have meaning within the function, whereas script variables are available to other programs

    L2 CO4

17. Which of the following is a Assignment operator in MATLAB?

    a) '='   b) '=='   c) '-'   d) '*'

    L1 CO4

18. Which of the following types of Loops does MATLAB Provides?

    a) For Loop   b) While Loop   c) Nested Loops   d) All of the above

    L2 CO4

19. One dimensional data interpolation MATLAB command

    a) interp1   b) 1-Interpl   c) Interp-1   d) interp

    L3 CO4

20. Non stiff solver based on fourth / fifth order Runge-Kutta method ODE suits function is

    a) ode15s   b) ode45   c) ode23   d) ode23t

    L2 CO4

21. The Number of arguments required for subplot are

    a) One   b) Two   c) Three   d) Four

    L1 CO5

22. Meaning of the command **axis([-5 10 2 22])**
    a) Sets the x-axis from -5 to 10, y-axis from 2 to 22
    b) Sets x-axis from -5 to 10 with increments 2 to 22
    c) Sets the y-axis from -5 to 10, x-axis from 2 to 22
    d) None of the above

    L4 CO5

23. What are the characters in Matlab are represented in their value in memory?

    a) decimal   b) ASCII   c) Hex   d) string

    L3 CO5

24. What are the things for which MATLAB can be used?
    a) Performing very simple calculations
    b) Plotting mathematical relationships in two dimensional and three dimensional
    c) For operations of matrix
    d) All of these

    L1 CO5

25. Index of an array in MATLAB start with

    a) 0   b) 1   c) Depends on the class of array   d) Unknown

    L3 CO5

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