

B. Sc. in EEE
Summer semester

Date: 12 January, 2023
Time: 01:45pm–02:15 pm

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

Lab Quiz - 01 (Set-A)
Course Number: EEE 4416
Course Title: Simulation Lab

Summer Semester: 2022 - 2023
Full Marks: 20
Time: 20 minutes

MATLAB commands are written in italic.

1. $A = [2, 5, 7;$
 $4, 8, -1;$
 $10, 3, 9]$

For the given array A, what is the linear index of 3?

Ans:

2. $A(2,4)$ – what will this command return and why?

Ans:

3. $\max(A,2)$ - what will this command return?

Ans:

4. If you want to change the 7th element in the matrix to 100, what will be the MATLAB command?

Ans:

5. To get the minimum of the entire matrix A, what will be the MATLAB command?

Ans:

6. $A(1,2) = 4$

What will be the ‘exact’ result of the above Matlab command?

Ans:

7. $[ii, jj] = \max(A)$
What will be the value of ii and jj?

Ans:

8. $X = \{100, 24, 98, 'logan', 'Xavier'\}$
 $class(X(4)) = ?$

Ans:

9. What do you understand by the term 'heterogeneous' datatype?

Ans:

10. What do you understand by the 'double' datatype?

Ans:

11. What is the difference between a character array and a string?

Ans:

12. $Y = ['witcher', ':', 'the wild hunt']$
 $Y(3) = ?$

Ans:

13. What is the use of "workspace" in Matlab?

Ans:

14. $B = [2, 4, 5; 6, 7, 11, -2; 3, 5, 18, 8]$

Is there any error in the above command?

Ans:

15. $S = \text{"kratos"}$

$S(3) = ?$

Ans:

16. $P = \text{'edward stark'}$

$P(2,2) = ?$

Ans:

17. Write down the difference between a numeric array and a cell array?

Ans:

18. Write the Matlab code to create a 2*4 matrix with any numbers.

Ans:

19. Write an example of the standard form of MIMO built-in function in Matlab?

Ans:

20. $Z = \text{'Zack Snyder'}$

$Z[2] = ?$

Ans: