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Courses » **Computer Aided Power System Analysis**

Announcements   **Course**   Ask a Question   Progress   FAQ

Unit 8 - Week 7

Register for Certification exam

Course outline

How to access the portal

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

- ● LU Decomposition
- ● Introduction to Contingency Analysis
- ● Linear Sensitivity Factor
- ● Linear Sensitivity Factors (Contd.)
- ● Line outage sensitivity factor

Quiz :

Assignment 7

The due date for submitting this assignment has passed.
As per our records you have not submitted this   **Due on 2019-03-20, 23:59 IST.**
assignment.

1) **Questions 1-3 are based on the following problem:**   *2 points*

Perform LU decomposition of the matrix $A = \begin{bmatrix} 1 & 1 & 1 \\ 4 & 3 & -1 \\ 3 & 5 & 3 \end{bmatrix}$

The value of the element L_{21} of the L matrix is

- ○ 4
- ○ 5
- ○ 3
- ○ 2

No, the answer is incorrect.
Score: 0

Accepted Answers:
4

2) The value of the element U_{23} of the U matrix is   *2 points*

- ○ -4
- ○ -5
- ○ -3
- ○ -2

No, the answer is incorrect.
Score: 0

Accepted Answers:
-3

3) The value of the element L_{32} of the L matrix is   *2 points*

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Score: 0

Accepted Answers:

-2

4) Which of the following statements is true regarding GOSF ?   *2 points*

     A). For given parameters of a power system, the values of GOSF are constant.
     B). For calculating GOSF, only the line parameters are necessary, while the information regarding the topology of the system is not necessary.

Both statements A) and B) are correct.

  Only statement A) is correct

  Only statement B) is correct

  Both statements A) and B) are wrong

No, the answer is incorrect.
Score: 0

Accepted Answers:
Only statement A) is correct

5) Which of the following statements is true regarding Thevenin's equivalent impedance ?   *2 points*

A). Thevenin's equivalent impedance between any two nodes is dependent on the loading condition of the system.

B). For calculating Thevenin's equivalent impedance, only the line parameters are necessary, while the information regarding the topology of the system is not necessary.

  Both statements A) and B) are correct.

  Only statement A) is correct

  Only statement B) is correct

  Both statements A) and B) are wrong

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both statements A) and B) are wrong

Previous Page   **End**