X

NPTEL

Courses » Computer Aided Power System Analysis

Announcements   **Course**   Ask a Question   Progress   FAQ

Unit 1 - How to access the portal

Register for Certification exam

Course outline

How to access the portal

○ How to access the home page?

○ How to access the course page?

○ How to access the MCQ, MSQ and Programming assignments?

○ How to access the subjective assignments?

○ Quiz : Assignment 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this   **Due on 2019-02-04, 23:59 IST.**
assignment.

1) Expression of complex power in electric circuit is given by (V is the complex voltage and I is **1 point** the complex current)

○ VI

○ VI*

○ V*I*

○ V*I

No, the answer is incorrect.
Score: 0

Accepted Answers:
*VI**

2) **What is infinite bus in power system?**   **1 point**

○ A large system with infinite voltage

○ A large system whose voltage and frequency remains constant throughout.

○ A large system in which the voltage and frequency varies

○ A large system in which the only frequency varies

No, the answer is incorrect.
Score: 0

Accepted Answers:
A large system whose voltage and frequency remains constant throughout.

3) **What will be the per unit impedance of a synchronous motor having a rating of 100**   **1 point**
kVA, 13.2 kV and having a reactance of 75 Ω / ph?

○ 0.042 pu

© 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -

A project of

NPTEL National Programme on Technology Enhanced Learning

In association with

NASSCOM®

Funded by

Week 11

Week 12

DOWNLOAD VIDEOS

Interaction Session

ce De

Accepted Answers:
0.043 pu

4) **Which among these is the major advantage of per unit computations?**   *1 point*

⚪ Per unit impedance of transformers is the same referred to either side of it.

⚪ For simulating steady state and transient models in the computer this method is very useful.

⚪ Manufactures usually specify the impedance of an apparatus in per unit system.

⚪ All of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of these

5) **What is the simplified diagram called, after omitting all resistances, static loads,**   *1 point*
capacitance of the transmission lines and magnetizing circuit of the transformer?

⚪ Single line diagram

⚪ Resistance diagram

⚪ Reactance diagram

⚪ None of these

No, the answer is incorrect.
Score: 0

Accepted Answers:
Reactance diagram

6) The element J_2 is:

[⇅]

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 17.67,17.69

2 points

7) The element J_2 is:

[⇅]

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 17.67,17.69

2 points

Previous Page   End