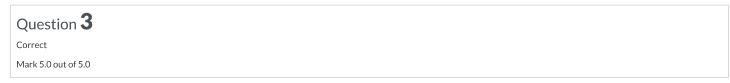
Dashboard	/ My cou	rses / EEE 3352 / Lecture 7: Introduction to power systems / Assignment 7 (Quiz): 28 October 2022: 0800 - 0900 hrs
Si		Friday, 28 October 2022, 8:55 AM
		Finished
		Friday, 28 October 2022, 9:00 AM
		4 mins 25 secs
	Grade	65.0 out of 100.0
Question	1	
Complete		
Not graded		
What is: Answer:	√3z ct answer	ree phase system with a star-connected load for which the line voltage is 208V and impedance of each phase is $3+j4\Omega$.
Question	2	
Correct		
Mark 5.0 out o	of 5.0	
the magnitude of the phase voltage, in V? [1 decimal place]		
Answer:	120.1	
•	/	

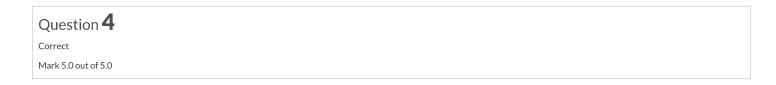
The correct answer is: 120.1



the magnitude of the load impedance, in $\Omega ? [1\, decimal\, place]$



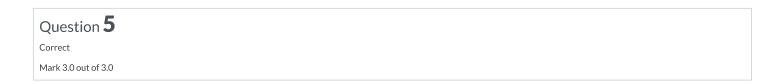
The correct answer is: 5



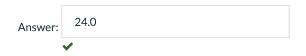
the angle of the load impedance, in °? [1 decimal place]



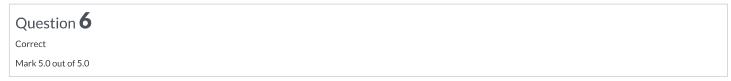
The correct answer is: 53.1



the magnitude of the phase current, in A? [1 decimal place]



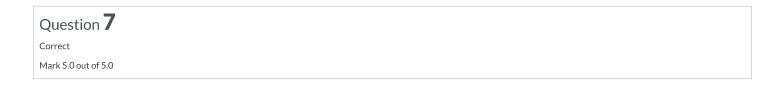
The correct answer is: 24



the magnitude of the line current, in A? [1 decimal place]



The correct answer is: 24



real power for each phase, in W? [whole number, i.e., 0 decimal places]



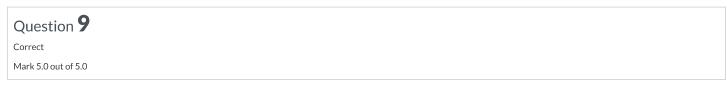
The correct answer is: 1731



the total real power delivered to the load, in W? [whole number, i.e., 0 decimal places]



The correct answer is: 5192



the total apparent power delivered to the load, in VA? [whole number, i.e., 0 decimal places]



The correct answer is: 8653

Question 10
Not answered
Not graded

If the same load is now delta-connected, while keeping the line voltage the same, what is:

Answer:

The correct answer is: 0

Question **11**

Correct

Mark 2.0 out of 2.0

the magnitude of the phase voltage, in V? [1 decimal place]



The correct answer is: 208



Correct

Mark 5.0 out of 5.0

the magnitude of the phase current, in A? [1 decimal place]



The correct answer is: 41.6

Question **13**

Correct

Mark 5.0 out of 5.0

the magnitude of the line current, in A? [1 decimal place]



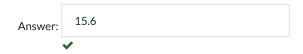
The correct answer is: 72.1

Question 14

Correct

Mark 5.0 out of 5.0

the total real power delivered to the load, in kW? [1 decimal place]



The correct answer is: 15.6

Question 15	
Correct	
Mark 5.0 out of 5.0	

the total apparent power delivered to the load, in kVA? [1 decimal place]

Answer:	26.0
	✓

The correct answer is: 26

Question 16	
Not answered	
Marked out of 10.0	

the reading of the first wattmeter in the two-wattmeter method (i.e. the higher value), in kW? [1 decimal place]



The correct answer is: 12.4

Question 17 Not answered Marked out of 5.0

the reading of the second wattmeter in the two-wattmeter method (i.e. the lower value), in kW? [1 decimal place]



The correct answer is: 3.2

/30/22, 5:26 PM	Assignment 7 (Quiz): 28 October 2022: 0800 - 0900 hrs: Attempt review
Question 18	
Not answered	
Not graded	
	he delta connection is adjusted, maintaining balanced load condition, so that the two-wattmeter method now 8.0 kW, for the respective first and second wattmeter, what is:
Answer:	
The correct answer is: 0	
Question 19	
Correct	
Mark 5.0 out of 5.0	
the total real power delivered t	to the load, in kW? [1 decimal place]
Answer: 12.0	
The correct answer is: 12	

Question 20 Incorrect

Mark 0.0 out of 10.0

the power factor of the load? [1 decimal place]

0.9 Answer:

The correct answer is: 0.87

Question 21	
Incorrect	
Mark 0.0 out of 10.0	

the reading of a wattmeter connected in a manner to measure total reactive power, in kW? [1 decimal place]

Answer:	6.0
	×

The correct answer is: 3.5

■ EXAMPLES

Jump to...

LECTURE 7: 2021-08-18 (1100 - 1300 HRS) ▶