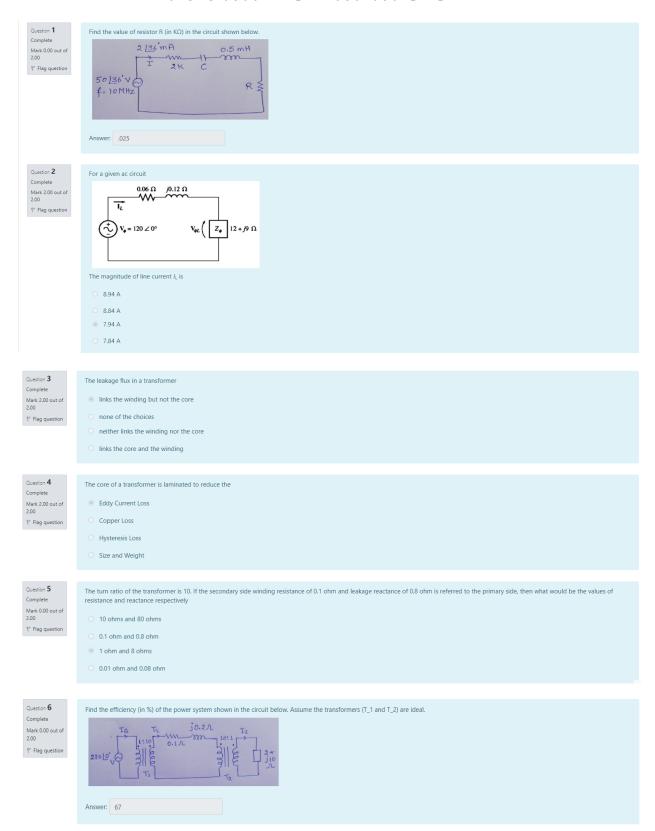
## **EE100MIDSEM MOODLE**



Question 7 Complete Mark 2.00 out of 2.00 P Flag question	The voltage regulation in a transformer if found to be negative indicate that the load is  Capacitive Inductive Resistive Any combination of Resistor, Capacitor and Inductor
Question 8 Complete Mark 2.00 out of 2.00  F Flag question	The full load copper loss in a transformer is 160 watts. What will be the copper loss at 75% of the full load?  9 90 watts  120 watts  0 watts  160 watts
Question 9 Complete Mark 2.00 out of 2.00 P Flag question	Three equal impedances are first connected in star across a balanced 3-phase supply. If the same impedances are reconnected in delta across the same supply  line current will be one third.  phase current will be doubled.  power consumed will be increased by three-fold.  phase current will be tripled.
Question 10 Complete Mark 2.00 out of 2.00 P Flag question	Efficiency of a transformer is maximum when  None of the choices  Copper Loss is equal to that of Iron Loss  Iron Loss is half that of Copper Loss  Copper Loss is half that of Iron Loss
Question 11 Complete Mark 2.00 out of 2.00 P Flag question	The core flux in a transformer with frequency constant depends upon the  Current drawn from the supply  Voltage applied to the primary winding  None of the choices  Reluctance of the magnetic circuits
Question 12 Complete Mark 0.00 out of 2.00 P Flag question	Find the magnitude of total reactive power (in mVAR) in the circuit shown below.  2 $136 \text{ mA}$ 0.5 mH $1 \text{ 2 K}$ $1 \text{ 2 K}$ $1 \text{ 2 K}$ Answer: 3000
Question 13 Complete Mark 0.00 out of 2.00 Y Flag question	In a transformer, the primary and secondary volt-ampere ratings are same to satisfy  Faraday's law of electromagnetic induction  Lenz's law  Law of conservation of energy  Both Faraday's and Lenz's Law

Question 14 For a given ac circuit 0.06 Ω j0.12 Ω Mark 2.00 out of 2.00 ♥ Flag question The real, reactive, and apparent powers supplied by the generator 2281 W; 1725 VAR; 2860 VA O 2860 VA; 1725 VAR; 2281 W O 1725 VAR; 2281 W; 2860 VA None of the choices Question 15 Find the phase angle (in degree) of the voltage across 0.5 mH inductor in the circuit shown below. 2136 mA 0.5 mH Mark 0.00 out of 2.00 -M\_ 2K ₹ Flag question 50 136 VA RS f= 10MHz Answer: 86.3 Question 16 Electric power is almost exclusively, generated, transmitted and distributed by three-phase system because Complete Mark 2.00 out of 2.00 all the choices. uses less materials for a given capacity. ♥ Flag question ocsts less than single-phase system. it is more efficient. Question 17 Transformer ratings are usually expressed as Complete KVA Mark 2.00 out of 2.00 O HP ₱ Flag question KVAR O KW Question 18 In a balanced 3-phase power supply, the current through the neutral wire is Complete Mark 2.00 out of 2.00 O Product of Phase Currents Sum of Phase Currents ₹ Flag question Zero

 $\sqrt{3}$  Phase Current

Question 19
Complete
Mark 2.00 out of 2.00
P Flag question



Question 20
Complete
Mark 2.00 out of 2.00

Flag question

In a short circuit test of a transformer, the wattmeter reads the copper loss not the iron loss because

- Voltage applied is small
- O None of the choices
- Ourrent flowing in the winding is very high
- O Frequency of the supply is constant