

QUIZ NO: 83

TOPIC: ELECTRICAL ENGINEERING

DATE: 21/06/2022

1.	The secondary of a current transformer is always kept short-circuited while operating because it
	[A] Avoids core saturation and high voltage induction
	[B] Is safe to human beings
	[C] Protects the primary circuit
	[D] To keep temperature within limits
	Answer: A
2.	For a transformer with primary turns 400, secondary turns 100, if 20A current is flowing through primary, we will get
	[A] 800A at secondary
	[B] 40A at secondary
	[C] 80A at secondary
	[D] 5A at secondary

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Answer: C



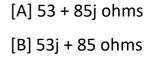








3.	A 25 KVA transformer is constructed to a turns ratio of N1/N2 = 10. The impedance of
	primary winding is 3+j5 ohms and of secondary winding is 0.5+j0.8 ohms. What will be
	the impedance of transformer when referred to primary?



[C] Can't be calculated

[D] 3.5 + 5.8j ohms

Answer: A

4. The full-load copper loss of a transformer is 1600 W. At half-load, the copper loss will be

[A] 1600 W

[B] 6400 W

[C] 400 W

[D] 800 W

Answer: C

5. Power transformers other than distribution transformers are generally designed to have maximum efficiency around _____

[A] 10% overload

[B] Near full-load

[C] Half-load

[D] No-load

Answer: B

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- 6. For a power transformer operating at full load it draws voltage and current equal to 200 V and 100 A respectively at 0.8 pf. Iron and copper losses are equal to 120 kW and 300kW. What is efficiency?
 - [A] 97.44%
 - [B] 99.12%
 - [C] 86.44%
 - [D] 96.44%
 - **Answer: A**
- 7. No-load current in the transformer is ______
 - [A] Sinusoidal distorted
 - [B] Sinusoidal
 - [C] Steps
 - [D] Straight DC
 - Answer: A
- 8. Which of the following is the main advantage of an auto-transformer over a two-winding transformer?
 - [A] Eddy losses are totally eliminated
 - [B] Copper losses are negligible
 - [C] Saving in winding material
 - [D] Hysteresis losses are reduced

Answer: C

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- 9. For a 20kVA transformer with a turn ratio of 0.4 what amount of total power is transferred inductively?
 - [A] 10kVA
 - [B] 8kVA
 - [C] 50kVA
 - [D] 12kVA
 - **Answer: D**
- 10. Which of the following is the major requirement for the transformers used for electronic purposes?
 - [A] Constant amplitude voltage gain
 - [B] Perfect DC isolation, maximum efficiency and constant voltage gain
 - [C] Perfect DC isolation
 - [D] Maximum efficiency

Answer: A

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