Electrical Engineering Quiz 003 (Mixed)

Quiz Instructions

A) 51

B) 65

•	Before	attempting,	carefully	read the	question	text.
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- Then choose the correct answer.
- Click on "Submit" to confirm your answer.
- Use the **Question List** in the upper left corner to jump to a certain question.

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1. A circuit having power factor of 0.8 consumes 40 W. What will be the value of reactive power (in VAR of the circuit?
A) 20
B) 40
C) 30
D) 10
2. On which of the following parameters the eddy current loss occurring in a material does not depend?
A) Magnetic flux Density
B) Frequency of variation of flux
C) Susceptibility
D) Volume of the material
3. Determine the magnetic field strength (in A/m) of a material when the intensity of magnetization of the material is 0.084 Amp/m and the magnetic susceptibility of the material is 0.0012.
A) 70
B) 700
C) 0.7
D) 0.07
4. A PMMC type voltmeter, having a full scale reading of 250 V and an internal resistance of 400 kilo ohms, is connect with a series resistance of 100 kilo-ohms. Calculate the sensitivity of the voltmeter (in Ohms/Volts).
A) 2400
B) 2000
C) 20,000
D) 24,000
5. Determine the phase angle (in degrees) of a balanced 3-phase star connected system, if the first and the second wattmeter show readings of 200 W and 1200 W respectively.

C)	78		
D)	84		
6. Wh	ich one of the following statement is NOT true about PMMC type instruments?		
A)	PMMC type instruments have uniformly divided scale.		
B)	These instruments are suitable for both AC and DC currents		
C)	Stray magnetic errors are small in these types of instruments.		
D)	The cost of PMMC instruments is high.		
7. Wh	ich one of the following instrument can measure voltage, resistance, and current?		
A)	Ammeter		
B)	Voltmeter		
C)	Multimeter		
D)	Wattmeter		
	ermine the flux (in Wb) through a coil when the reluctance of the coil is 4 Amp-turns/Wb and the ced mmf is 48 Amp-turns.		
A)	10		
B)	12		
C)	14		
D)	16		
	ermine the percentage voltage error of a potential transformer with the system voltage of 11000 aving a turn's ratio of 104 if the measured secondary voltage is 98 V.		
A)	7.35		
B)	5.75		
C)	6.25		
D)	8.84		
10. A house has 5 fans of 70 W each that operate for 16 hours a day and one washing machine of 2000 W that operates for 1 hour per day in the month of June. What is the energy consumption (in kWh) of the house in the month of June?			
A)	228		
B)	235.6		
	350		
C)	330		

Answer Keys

Question	Answer
1	С
2	С
3	A
4	В
5	Α

Question	Answer
6	В
7	С
8	В
9	Α
10	Α