Electrical Transformers and Rotating Machines 4th Edition Herman Test Bank

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Unit 2: Magnetic Induction

TRUE/FALSE

1.	The polarity of the induced voltage is determined by the polarity of the magnetic field in relation to the direction of movement.						
	ANS: T	PTS:	1	REF:	Magnetic Induction		
2.	The important factor	rs conce	rning magnetic	inducti	on are a magnetic field, movement, and polarity.		
	ANS: F	PTS:	1	REF:	Moving Magnetic Fields		
3.	If a conductor cuts magnetic lines of flux at a rate of 1 V, a voltage of 1 Wb/s will be induced.						
	ANS: F	PTS:	1	REF:	Determining the Amount of Induced Voltage		
4.	The induced voltage	is prop	ortional to the r	ate of c	change of current (speed of the cutting action).		
	ANS: T	PTS:	1	REF:	Rise Time of Current in an Inductor		
5.	The exponential curve describes a rate of certain occurrences and is divided into four time constants.						
	ANS: F	PTS:	1	REF:	The Exponential Curve		
6.	The exponential curve can often be found in nature.						
	ANS: T	PTS:	1	REF:	The Exponential Curve		
7.	Inductance is measured in units called the henry and is represented by the letter H .						
	ANS: F	PTS:	1	REF:	Inductance		
8.	The time necessary for current in an inductor to reach its full Ohm's law value, called the R-L time constant, can be computed using the formula $L=H\ /\ R$.						
	ANS: F	PTS:	1	REF:	Inductance		
9.	A device that can be used for spike suppression in either direct- or alternating-current circuits is the metal oxide varistor (MOV).						
	ANS: T	PTS:	1	REF:	Induced Voltage Spikes		
10.	A device that uses the collapsing magnetic field of an inductor to produce a very low voltage is the electric-fence charger.						
	ANS: F	PTS:	1	REF:	Induced Voltage Spikes		
MULTIPLE CHOICE							

M

1. The principle of magnetic _____ states that whenever a conductor cuts through magnetic lines of flux, a voltage is induced into the conductor.

	a. inductionb. conduction				reduction fluctuation			
	ANS: A	PTS:	1	REF:	Magnetic Induction			
2.				flux der c.	will be induced in a conductor: the number of turns asity), and the of the cutting action. intensity direction			
	ANS: A	PTS:	1	REF:	Determining the Amount of Induced Voltage			
3.	In magnetic measure a. 100,000 b. 1,000,000	ement, _	lines of flu	c.	qual to one weber (Wb). 10,000,000 100,000,000			
	ANS: D	PTS:	1	REF:	Determining the Amount of Induced Voltage			
4.	. When a resistive load is suddenly connected to a source of direct current, the current will instant							
	a. drop to its minim b. rise to its maxim				become erratic stop flowing			
	ANS: B	PTS:	1	REF:	Rise Time of Current in an Inductor			
5.	Each time constant i a. 20.0 b. 25.0	n an exp	onential curve	c.	1 to% of some value. 33.3 63.2			
	ANS: D	PTS:	1	REF:	The Exponential Curve			
6.	A coil has an inducta induced voltage of o a. david b. henry		one when	c.	nt change of one ampere per second results in an weber paul			
	ANS: B	PTS:	1	REF:	Inductance			
7.	Iron-core inductors of loss in the core mate a. electrical current b. phosphoresis	rial.	e used for high	c.	ncy applications because of loss and hysteresis polarity eddy current			
	ANS: D	PTS:	1	REF:	Inductance			
8.	A(n) occurs when the current flow through an inductor stops, and the current decreases at ar exponential rate also.							
	a. voltage joltb. amp spike				wattage jolt voltage spike			
	ANS: D	PTS:	1	REF:	Induced Voltage Spikes			
9.	A device often used to prevent induced voltage spikes when the current flow through an inductor is stopped is the							
	a. closed switchb. diode				electrode iron-core inductor			

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ANS: B PTS: 1 REF: Induced Voltage Spikes

10. A(n) ____ diode has a forward voltage drop of approximately 0.7 V regardless of the current flowing through it.

a. MOVb. ironc. oxided. silicon

ANS: D PTS: 1 REF: Induced Voltage Spikes