MULTIPLE CHOICE

1.	What is the label desa. Tb. C	signation	n for the leads o	c.	ator brought out to the conduit box? V A
	ANS: A	PTS:	1	REF:	The Parts of an Induction Motor
2.	Any part of the moto a. shaft key b. cooling fan			c. d.	shaft terminal
	ANS: C	PTS:	1	REF:	The Parts of an Induction Motor
3.	The holds all that a. mounting base b. motor housing		Ī	c. d.	shaft conduit box
	ANS: B	PTS:	1	REF:	The Parts of an Induction Motor
4.	torque is a term turning motion. a. Cogging b. Induction	n used to	describe when	c.	tor turns in jerks or increments rather than a smooth Counterclockwise Magnetic
	ANS: A	PTS:	1	REF:	The Parts of an Induction Motor
5.	When electrical ener electric motor conve a. transfer b. kinetic energy ANS: D		o mechanical e	energy, i c. d.	ean convert it to another form of energy, such as an it performs energy work What is an Induction Motor?
6.	is a turning for	oo that d	latarminas vyhs	nt maaha	anical work may be performed.
0.	a. Torque b. Foot/pounds	ce mai d	ieteilillies wila	c.	Energy Power
	ANS: A	PTS:	1	REF:	What is an Induction Motor?
7.	is the measurer being the differentia a. Power b. Torque			c.	omplished in a specific amount of time, with time Work Energy
	ANS: A	PTS:	1	REF:	What is an Induction Motor?
8.	A method of graphic with the powera. triangle b. square		nonstrating the	c.	factor relationship between energy and power, is quadrant grid
	ANS: A	PTS:	1	REF:	What is an Induction Motor?

9.	The most common ga. Design A b. Design B	general purpose N	c.	s Design C Design D					
	ANS: B	PTS: 1	REF:	What is an Induction Motor?					
10.			the rotor reac	PM) speed for NEMA Design B motors, and does thes full-load speed. 90-95% 100%					
	ANS: B	PTS: 1	REF:	What is an Induction Motor?					
11.	The torque that the motor develops at zero speed (rotor not turning) when the rated voltage and frequency are applied is called torque. a. pull-up c. locked-rotor								
	a. pull-upb. breakdown			full-load					
	ANS: C	PTS: 1	REF:	What is an Induction Motor?					
12.	The minimum torqua. pull-up b. breakdown	ne developed from	c.	to breakdown torque is called torque. locked-rotator full-load					
	ANS: A	PTS: 1	REF:	What is an Induction Motor?					
13.			(experiencin c.	having reached full operating speed at the rated g an abrupt drop in speed), is called torque. locked-rotor full-load					
	ANS: B	PTS: 1	REF:	What is an Induction Motor?					
14.	The torque produced at full load speed that gives the rated horsepower output of the motor is called								
	a. pull-up b. breakdown			locked-rotor full-load					
	ANS: D	PTS: 1	REF:	What is an Induction Motor?					
COM	PLETION								
1.	Moltenrotor bars.	is po	oured through	the laminations into the cavities designed to form					
	ANS: aluminum								
	PTS: 1 REF: The Parts of an Induction Motor								
2.	Rotors of induction	motors are referre	d to as	rotors.					
	ANS: squirrel cage								
	PTS: 1	REF: The Part	s of an Induc	tion Motor					

3.	is defined as the capacity, or potential, to perform work.					
	ANS: Energy					
	PTS: 1 REF: The Parts of an Induction Motor					
4.	Resistive loads are said to be, because voltage and current are always the same polarity, and are being used in the same proportion for all time points along the horizontal axis of wave forms.					
	ANS: in-phase					
	PTS: 1 REF: What is an Induction Motor?					
5.	VARs stands for					
	ANS: Reactive Volt-Amperes Reactive Volt Amperes					
	PTS: 1 REF: What is an Induction Motor?					
ЮІ	RT ANSWER					

SH

1. What are the two reasons why there is a thin layer of insulation on magnet wire?

ANS:

First, it makes it possible to fit many more turns of wire into the limited space slots in the iron stator core; second, inductive (magnetic) coupling requires that the conductors be as close together as possible.

PTS: 1 REF: The Parts of an Induction Motor

2. Describe what power factor is and what a poor power factor means.

ANS:

Measurement of how effectively the electrical energy taken from the electrical power source is used to perform work, to the portion of the electrical energy that is stored and returned to the power supply unused. A poor power factor means that the productive current carrying capacity of the premises electrical distribution system is reduced, because a portion of the capacity is used carrying unproductive electrical currents.

PTS: 1 REF: The Parts of an Induction Motor