Name: HOMEWORK Class: 4C & 4D Date: 5-15-18 ID: A

4th Year Motors **Week-2**

WITALEN MAKE-UP

Multiple Choice
Identify the choice that best completes the statement or answers the question.

____ 1. The ____ field in a single-phase AC motor can be created by having two sets of coils displaced in physical location around the rotor.
a. flux
b. conductor
c. current
d. stator

____ 2. The ____ speed of an AC motor is the speed of the rotating magnetic field around the stator core, measured in revolutions per minute (rpm).
a. stationary
b. cage
c. synchronous
d. asynchronous

____ 3. The synchronous speed of an AC motor's rotating magnetic field depends on the ____ and the frequency of the waveform applied.
a. number of poles
b. number of plates
c. placement of the motor
d. placement of the poles

____ 4. AC motors were invented by ____ who was an inventor, mechanical engineer, and electrical engineer.
a. Thomas Edison
b. Nikola Tesla
c. Alessandro Volta
d. Georg Ohm

____ 5. The term ____ simply means the rotors have voltage induced into them.
a. conductor
b. inductor
c. conduction motor
d. induction motor

____ 6. ____ have voltage electrically connected to the rotor.
a. Conductors
b. Inductors
c. Conduction motors
d. Induction motors

____ 7. As the rotor spins within the stator of the motor, it creates the ____ poles on the rotor.
a. magnetic
b. conduction
c. induction
d. electric

____ 8. ____ are electronic controls used to control the speed of an AC motor.
a. Inverter drives
b. Variable frequency drives
c. Variable load drives
d. Rectifier drives

____ 9. All AC motors work because a rotating magnetic field can be produced on a stationary frame, or the _____, of the motor.
a. rotor
b. armature
c. stator
d. brushes

____ 10. A(n) _____ rotor is made up of conductors that are mounted in the rotor and are short circuited at each end.
a. rotor
b. armature
c. stator
d. brushes