Name: MAKE-UP Class: EL-2D Date: 4-11-18 ID: A

Transformers **Week-4 HW** **Whalen**

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

____ 1. All magnets have a north and south pole.
a. True b. False

____ 2. A step- _____ transformer with the source connected to the winding with the most turns and the load connected to the winding with the fewest turns.
a. up b. left c. down d. right

____ 3. _____ is the ability of an inductor in one circuit to induce a voltage in another circuit.
a. Mutual induction c. Self induction
b. Exciting current d. Magnetizing current

____ 4. What is the property of ferromagnetic materials where the magnetic induction of a coil lags the magnetic field that is charging the coil.
a. Hysteresis c. Electro-magnet
b. Magnet d. Induction

____ 5. The ___ of a bar magnet can be determined by suspending it from a point overhead and allowing it to turn freely.
a. magnetic flux c. reluctance
b. electromagnetism d. polarity

____ 6. The basic law of magnetism states that unlike magnetic poles attract each other and like magnetic poles repel each other.
a. True b. False

____ 7. If a transformer has a turns ratio of **1 : 2** and there is a 240 volt AC power supply attached to the primary side what will the secondary voltage be?
a. 120V c. 480V
b. 240V d. 840V

____ 8. Electromagnetism is a temporary magnetic force because the magnetic field is present only as long as current flows.
a. True b. False

____ 9. A ___ transformer allows more uniform distribution of flux, resulting in reduced harmonics.
a. shell-type c. toroidal
b. core-type d. no answers listed

____ 10. ___ may cause a permanent magnet to become demagnetized.
a. Vibrations over an extended period of time c. A sharp blow
b. Heat that causes the molecular arrangement to become disorganized d. all of the above