Assignment 4

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1. The following power source designs are considered as conventional designs:
   1. Variable inductor
   2. Moving iron core
   3. Tapped transformer
   4. All of the above
   Yes, the answer is incorrect, Score: 0
   Accepted Answers: all of the above

2. In a tapped transformer power source, current is regulated by:
   1. Moving the tap plates to the iron plates
   2. Using mono-core windings in the transformer
   3. Switches in primary windings of the transformer
   4. By controlling the position of the iron sheet between primary and secondary coils of the transformer
   Yes, the answer is incorrect, Score: 0
   Accepted Answers: switches in primary windings of the transformer

3. The role of a saturable reactor in a magnetic amplifier power source is to:
   1. Control the output transformer
   2. Control three-phase input supply to single phase
   3. Increase the air gap
   4. Ignite the arc
   Yes, the answer is incorrect, Score: 0
   Accepted Answers: control the output transformer

4. A 10-kVA step-down transformer is used to reduce the voltage. It uses:
   1. Solid core construction
   2. Vacuum core construction
   3. Air core construction
   4. Single-wound windings
   Yes, the answer is incorrect, Score: 0
   Accepted Answers: single-wound windings

5. The main drawback of a stationary series regulator is:
   1. High efficiency
   2. Low input harmonic distortion
   3. Poor regulation accuracy
   4. Lack of fault protection
   Yes, the answer is incorrect, Score: 0
   Accepted Answers: high efficiency

6. In a stationary series regulator, the transformer is a part of:
   1. Secondary circuit
   2. Primary circuit
   3. Main supply
   4. Output regulator
   Yes, the answer is incorrect, Score: 0
   Accepted Answers: secondary circuit

7. Among all the commercially available welding power sources, the most compact and lightweight welding power source is:
   1. Tapped transformer system
   2. Magnetic amplifier system
   3. Stationary rectifier inverter system
   4. SCR phase control system
   Yes, the answer is incorrect, Score: 0
   Accepted Answers: stationary rectifier inverter system

8. The load function of inverter in the input circuit of a stationary rectifier-inverter power source is:
   1. Convert input AC into low frequency AC
   2. Convert low voltage DC from primary rectifier to high frequency AC
   3. Convert high voltage DC from primary rectifier to high frequency AC
   4. Isolate output in secondary circuit
   Yes, the answer is incorrect, Score: 0
   Accepted Answers: convert high voltage DC from primary rectifier to high frequency AC

9. Which one of the following power sources has very poor operating efficiency?
   1. Transistor series regulator
   2. Stationary rectifier
   3. DC/DC power control system
   4. Hybrid power sources
   Yes, the answer is incorrect, Score: 0
   Accepted Answers: transistor series regulator

10. When welding using alternating current:
    1. Alternating current is efficient
    2. Square wave form is efficient
    3. Pulse current with square wave form is efficient
    4. All types of waveforms are efficient
    Yes, the answer is incorrect, Score: 0
    Accepted Answers: square wave form is efficient