

Questions for self assessment

1. How are welding power-sources different from conventional domestic supply power sources?
2. Describe the common welding power sources namely welding transformer, welding generator and rectifier.
3. How can welding power sources be classified?
4. What are basic characteristics of welding power sources?
5. Describe the following characteristics of welding power sources along with their significance in welding
 - i. Open circuit voltage
 - ii. Power factor
 - iii. Dynamic characteristics
 - iv. Static characteristics
6. What is operating point in arc characteristic curve for given welding power sources? How is operating point affected by arc length?
7. What is self regulating arc and how can it be achieved in SAW/GMAW processes?
8. Describe methods used for maintaining the arc length.
9. Why is dynamic characteristic of a welding power source important for arc welding?
10. What are the factors affecting duty cycle for a power source at a welding current?
11. What is high frequency unit and how is does work?
12. Describe static characteristics of welding power sources that are commonly used for consumable and non-consumable arc welding processes?