

Unit -3

1. Inert gas welding is also known as:
 - a) Shielded welding
 - b) Gas welding
 - c) Arc welding with inert shielding
 - d) Resistance welding
2. TIG welding stands for:
 - a) Tungsten Inert Gas
 - b) Thermal Inert Gas
 - c) Total Inert Gas
 - d) Tungsten Internal Gas
3. In TIG welding, the electrode used is:
 - a) Consumable
 - b) Non-consumable
 - c) Carbon
 - d) Copper
4. MIG welding stands for:
 - a) Metal Inert Gas
 - b) Mechanical Inert Gas
 - c) Manual Inert Gas
 - d) Metal Internal Gas
5. In MIG welding, the electrode is:
 - a) Non-consumable
 - b) Consumable
 - c) Carbon
 - d) Tungsten
6. Friction welding is based on:
 - a) Electrical energy
 - b) Chemical reaction
 - c) Frictional heat
 - d) Radiation
7. Friction Stir Welding (FSW) is commonly used for:
 - a) Plastics
 - b) Aluminum alloys
 - c) Wood
 - d) Glass
8. Induction welding uses:
 - a) Mechanical force
 - b) Magnetic field and induced current
 - c) Gas flame
 - d) Laser beam
9. Explosive welding is mainly used for:
 - a) Thin sheets
 - b) Dissimilar metals

- c) Plastics
- d) Wood
- 10. Laser welding uses:
 - a) Electric arc
 - b) Gas flame
 - c) High energy laser beam
 - d) Chemical reaction
- 11. Soldering is done at temperature:
 - a) Above 450°C
 - b) Below 450°C
 - c) Above melting point of base metal
 - d) Very high temperature
- 12. Brazing differs from soldering because it is done at:
 - a) Lower temperature
 - b) Same temperature
 - c) Higher temperature
 - d) Room temperature
- 13. Heat Affected Zone (HAZ) is:
 - a) Fully melted region
 - b) Unaffected region
 - c) Region with altered properties due to heat
 - d) Cooling zone only
- 14. Which of the following is a welding defect?
 - a) Porosity
 - b) Inclusion
 - c) Crack
 - d) All of the above
- 15. Radiography test is a type of:
 - a) Destructive test
 - b) Non-destructive test
 - c) Mechanical test
 - d) Chemical test

◆ Fill in the Blanks

1. TIG welding uses a _____ electrode.
2. MIG welding uses a _____ electrode.
3. Friction welding generates heat due to _____.
4. Friction Stir Welding is widely used for _____ alloys.
5. Induction welding works on _____ principle.
6. Laser welding uses a high energy _____ beam.
7. Soldering is carried out below _____ °C.
8. Brazing is performed at _____ temperature than soldering.
9. Heat Affected Zone is abbreviated as _____.

10. Testing of welds without destroying them is called _____ testing.