

Duration: 30 Mins**Total Marks: 51****Q.ID: ITISKILL6877NF**

1. Which gas is used as inert gas in GTAW for increased speed?

- A) Hydrogen B) Helium
C) Oxygen D) Acetylene

Answer: A) Hydrogen

2. Which welding process is effective for nickel and titanium?

- A) Arc welding B) Gas welding
C) MIG welding D) TIG welding

Answer: D) TIG welding

3. How is the inert gas directed to flow over weld pool, in TIG welding?

- A) Through brass nozzle B) Through copper nozzle
C) Through ceramic nozzle D) Through metal nozzle

Answer: C) Through ceramic nozzle

4. How heat effected zone is covered and protected from atmospheric contaminations in GTAW?

- A) Active gas B) Argon gas
C) Oxygen gas D) Fuel gas

Answer: B) Argon gas

5. Which type of cooling system is used in heavy duty welding operations?

- A) Air cooled B) Gas cooled
C) Oil cooled D) Water cooled

Answer: D) Water cooled

6. What is the name of the defect in which the weld metal did not melt with base metal in TIG process?

- A) Porosity B) Lack of fusion
C) Under cut D) Lack of penetration

Answer: B) Lack of fusion

7. What is the main source of heat to the workpiece in TIG welding?

- A) By electrode B) By tube
C) By Torch D) Cable current

Answer: D) Cable current

8. Which process can easily weld thin metal?

- A) MIG welding B) Manual metal arc welding

- C) Tungsten arc welding D) Submerged arc welding

Answer: C) Tungsten arc welding

9. What is the approximate revolution of rotating member in friction welding process, to effect the weld joint?

- A) 3000 rpm B) 1500 rpm
C) 2000 rpm D) 2500 rpm

Answer: A) 3000 rpm

10. What is the purpose of inert gas used in TIG welding?

- A) To stabilize the Arc B) Contamination in the weld metal
C) To protect the molten metal from the atmospheric D) To get more spatters contamination

Answer: C) To protect the molten metal from the atmospheric contamination

11. What is the angle of electrode tip by setting DCEN for SS welding by TIG welding process?

- A) 50 Degree Centigrade B) 45 Degree Centigrade
C) 40 Degree Centigrade D) 60 Degree Centigrade

Answer: D) 60 Degree Centigrade

12. What stage of the metal the friction welding is completed by applying high pressure?

- A) Non fusion stage B) Plastic stage
C) Only heating stage D) Fusion stage

Answer: B) Plastic stage

13. Which gas is generally used in gas laser type welding?

- A) Argon gas B) Carbon - di - oxide
C) Oxygen D) Neon gas

Answer: B) Carbon - di - oxide

14. How to avoid burning fast of tungsten in TIG welding process?

- A) By not using shielding B) By using contaminated base metal
C) By using DCEP D) Long arc length

Answer: C) By using DCEP

15. What is the purpose of H.F. unit in TIG welding?

- A) To produce the AC B) To produce power supply

- C) To change AC to DC
D) To initiate the arc without touching the electrode on the base metal

Answer: D) To initiate the arc without touching the electrode on the base metal

16. What is the name of the part of TIG torch for holding tungsten electrode?

- A) Adaptor
B) Collet
C) Electrode cap
D) Ceramic nozzle

Answer: B) Collet

17. What is the non-consumable electrode of high melting point used in TIG welding?

- A) Aluminium electrode
B) Copper electrode
C) Tungsten electrode
D) Carbon electrode

Answer: C) Tungsten electrode

18. Which type of material friction welding is more suitable, for joining?

- A) Similar metal
B) Dissimilar metals
C) Non metal group
D) Any metal flat type

Answer: B) Dissimilar metals

19. What devices are provided to reflect the light coming to the ends of ruby rod in laser beam welding?

- A) Laser tube
B) Reflecting mirrors
C) Shutter
D) Flash lamps

Answer: B) Reflecting mirrors

20. Which part the equipment the electron beam is direct and controlled in an electron beam welding process?

- A) Vacuum chamber
B) Electron beam
C) Atmosphere
D) Electron gun

Answer: A) Vacuum chamber

21. In which welding process the work pieces are melted and jointed by narrow beam of light source?

- A) Electron beam welding
B) Laser beam welding
C) Plasma arc welding
D) Micro plasma arc welding

Answer: B) Laser beam welding

22. Which of the following properties of metal will not allow the application of friction welding?

- A) Metals with high compressive strength
B) Metals with low compressive strength
C) Metals with high tensile strength
D) Metals with low carbon content

Answer: B) Metals with low compressive strength

23. What is the use of a little hydrogen added to argon for welding of stainless steel in GTAW process?

- A) Improves heat transfer
B) Improves metal property
C) Improves heat transfer
D) Improves good welding

Answer: C) Improves heat transfer

24. What is the defect caused by high current in TIG welding?

- A) Lack of penetration
B) Porosity
C) Under cut
D) Crack

Answer: C) Under cut

25. What is the device used to show the volume of the inert gas allowed to go to the welding torch in TIG welding?

- A) Argon regulator
B) Flow meter
C) CO2 regulator
D) Pressure meter

Answer: B) Flow meter

26. What is the defect while TIG welding if the current is too low?

- A) Porosity
B) Lack of fusion
C) Under cut
D) Crack

Answer: B) Lack of fusion

27. What are the types of joint in friction welding?

- A) T joint
B) Lap joint
C) Butt joint
D) Corner joint

Answer: C) Butt joint

28. What is the process of replacing the air in a pipe with argon gas that will not react with the root of the weld?

- A) Pre filling
B) Pouring
C) Pool weld
D) Purging

Answer: D) Purging

29. What is the full form of GTAW?

- A) Gas tungsten arc welding
B) Galvanised tungsten arc welding
C) Grip tungsten arc welding
D) Groove tungsten arc welding

Answer: A) Gas tungsten arc welding

30. What is the cause for poor weld bead colour in TIG welding process?

- A) Contaminated or improper filler metal
B) Tungsten melting into weld puddle
C) Excessive heating in torch
D) Too much arc length

Answer: A) Contaminated or improper filler metal

31. Why argon gas is used in welding of stainless steel welding in TIG welding process?

- A) It is cheap
B) It prevents porosity
C) Inert gas protects the weld
D) It helps in melting the electrode

Answer: C) Inert gas protects the weld

32. Which electrode is used to produce arc in GTAW process?

- A) Stainless steel electrode
- B) Cast iron electrode
- C) Tungsten electrode
- D) M.S electrode

Answer: C) Tungsten electrode

33. What type of metals joined in friction welding?

- A) Any metal flat type
- B) Non metal group
- C) Similar metal
- D) Dissimilar metal

Answer: D) Dissimilar metal

34. What crystal (rod) is used in laser beam welding?

- A) Stainless steel
- B) Iron
- C) Ruby
- D) Copper

Answer: C) Ruby

35. What is principle of friction welding?

- A) Both members rotates
- B) Both members are heated
- C) One member is heated and another rotating
- D) One member stationary and another rotating type

Answer: D) One member stationary and another rotating type

36. Which type of tungsten electrode is suitable for welding of SS by TIG process with DC?

- A) Thoriated tungsten electrode
- B) Zirconium tungsten electrode
- C) Pure tungsten electrode
- D) Cerium tungsten electrode

Answer: A) Thoriated tungsten electrode

37. Which is the welding process that maintains electric arc between non-consumable tungsten electrode and the base metal?

- A) MIG
- B) MMAW
- C) TIG
- D) SAW

Answer: C) TIG

38. What is right about DCRP electrode TIG welding ?

- A) Weld circuit polarity is incorrect
- B) Improper shielding gas flow
- C) Improperly prepared tungsten
- D) Improper tungsten size

Answer: A) Weld circuit polarity is incorrect

39. What is the bore dia of ceramic nozzle to avoid porosity while doing TIG, welding?

- A) Too small sized
- B) Small sized
- C) Correct sized
- D) Large sized

Answer: C) Correct sized

40. Which is adjusted in Electron beam welding to eliminate the defect of porosity?

- A) Spot size
- B) Focal position / focus current
- C) Deflection
- D) Weld penetration

Answer: C) Deflection

41. Which gas is inactive or deficient is active chemical properties in TIG welding?

- A) Argon
- B) Hydrogen
- C) Acetylene
- D) Oxygen

Answer: A) Argon

42. Which welding process does not require the supply of external heat?

- A) Friction welding
- B) Seam welding
- C) Flash butt welding
- D) Spot welding

Answer: A) Friction welding

43. What is the source of heat in friction welding process?

- A) Electrical heating
- B) Thread heating
- C) Chemical heating
- D) Mechanical friction

Answer: D) Mechanical friction

44. How much temperature GTAW process can produce?

- A) 4500 Degree F
- B) 4000 Degree F
- C) 3000 Degree F
- D) 3500 Degree F

Answer: C) 3000 Degree F

45. Which electrode is used in TIG welding process?

- A) Tungsten
- B) Carbon electrode
- C) Magnesium electrode
- D) Zinc electrode

Answer: A) Tungsten

46. What type of metal section can be welded by friction welding?

- A) Flats and square roof
- B) Heavy sheet
- C) Pipe and round rods
- D) Think sheet

Answer: C) Pipe and round rods

47. How molten metal is shielded from the atmospheric contamination as a blanket in GTAW?

- A) By using fuel and supportable gas
- B) By using inert gas
- C) By using supportable gas
- D) By using fuel gas

Answer: B) By using inert gas

48. What is also referred as a GTAW?

- A) TIG welding
- B) STUD welding
- C) MIG welding
- D) GAS welding

Answer: A) TIG welding

49. Which will not be present on the weld bead due to use of

shielding gas in TIG welding process?

- A) Slag
- B) Over lap
- C) Under cut
- D) Penetration

Answer: A) Slag

50. Which gas is chemically inactive with any metals in hot or cold condition in TIG welding?

- A) Argon
- B) Oxygen

C) Hydrogen

D) Nitrogen

Answer: A) Argon

51. Which welding machine is to be used for welding of aluminium by TIG welding process?

- A) AC DC transformer
- B) AC welding machine
- C) DC welding machine
- D) DC transformer

Answer: B) AC welding machine
