

ITI Quiz - 05-Feb-2026

08:33 AM

Q. ID: ITISKILL2260MP

February 2026

Trinity ITI

Answer Key

Duration: 30 Mins

Total Marks: 43

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1. What should be the angle of electrode in the flat position welding?

- A) 60 Degree to 70 Degree B) 70 Degree to 80 Degree
C) 80 Degree to 90 Degree D) 50 Degree to 70 Degree

Answer: B) 70 Degree to 80 Degree

2. What is the term for the depth of fusion, from the surface of the weld metal plate?

- A) Leg length B) Fusion zone
C) Heat affected zone D) Penetration

Answer: D) Penetration

3. What is the purpose of wrapping the weld cable around the job in welding?

- A) To control arc blow B) To control arc speed
C) To control distortion D) To control arc length

Answer: A) To control arc blow

4. What should be the angle of electrode in horizontal position welding?

- A) 70 Degree to 80 Degree B) 80 Degree to 90 Degree
C) 55 Degree to 65 Degree D) 45 Degree to 55 Degree

Answer: A) 70 Degree to 80 Degree

5. What is the metal used to make earth clamp in a welding machine?

- A) Brass B) Aluminium
C) Copper alloy D) Iron

Answer: C) Copper alloy

6. Which type of polarity is used in welding non ferrous metals?

- A) Reverse polarity B) AC Transformer
C) Straight polarity D) DC Motor generator

Answer: A) Reverse polarity

7. Which polarity used in welding cast iron?

- A) Rectifier set B) Straight polarity
C) AC Transformer D) Reverse polarity

Answer: D) Reverse polarity

8. What is defined as vertical position of groove welding?

- A) 6G B) 1G

C) 2G

D) 3G

Answer: D) 3G

9. Which arc length produces correct fusion?

- A) Normal arc length B) Long arc length
C) Too long arc length D) Short arc length

Answer: A) Normal arc length

10. How much current should be set, to weld a 10 mm thick plates, by arc welding?

- A) 70 Amps B) 90 Amps
C) 80 Amps D) 110 Amps

Answer: D) 110 Amps

11. Which polarity is used in welding with heavy and super heavy coated electrodes?

- A) Reverse polarity B) AC Motor generator
C) Straight polarity D) AC Transformer

Answer: A) Reverse polarity

12. Which type of metal is used in a welding cable?

- A) Bronze B) Copper
C) Iron D) Brass

Answer: B) Copper

13. What is polarity?

- A) Opp direction of current B) Direction of current
C) Circuit of current D) Open circuit of current

Answer: B) Direction of current

14. What happens if the root gap is lesser than one sixth of plate thickness?

- A) Base metal not fused till the bottom of joint B) More penetration will result
C) More chances of distortion D) Likely defects like blowhole, porosity

Answer: A) Base metal not fused till the bottom of joint

15. Which type of arc length produces deep penetration weld?

- A) Short arc length B) Too long arc length
C) Long arc length D) Medium arc length

Answer: A) Short arc length

16. How do you name the depression formed at the end of the weld?

- A) Pin hole
- B) Blow hole
- C) Crack
- D) Crater

Answer: D) Crater

17. Which of the accessories should be worn during overhead welding?

- A) Welding goggles
- B) Hand screen
- C) Sun glass
- D) Helmet

Answer: D) Helmet

18. Which one of the following is used to convert AC to DC supply in a welding machine?

- A) Engine generator set
- B) Motor generator set
- C) Welding transformer
- D) Rectifier set

Answer: D) Rectifier set

19. Which of the following gas is used in TIG welding?

- A) Oxygen
- B) Carbon dioxide
- C) Helium
- D) Hydrogen

Answer: C) Helium

20. Which type of polarity used in bare wire electrode

- A) Straight polarity
- B) Rectifier set
- C) Reverse polarity
- D) AC Transformer

Answer: A) Straight polarity

21. What is the conversion function of a rectifier?

- A) AC to DC
- B) AC to AC
- C) DC to DC
- D) DC to AC

Answer: A) AC to DC

22. What are the two types of MS pipes?

- A) Bent sheet pipe / Hot forged
- B) Forged pipe / Rolled pipe
- C) Seamless pipe / Resistance welded pipe
- D) Strip rolled / moulded type

Answer: C) Seamless pipe / Resistance welded pipe

23. Which defect can be controlled by keeping a magnetic bridge on the top of the groove joint?

- A) Uneven bead
- B) Arc blow
- C) Slag inclusion
- D) Distortion

Answer: B) Arc blow

24. What is the indication of wrong polarity in DC welding?

- A) It will produce edge of plates melted off
- B) Electrode become red hot
- C) Excess spatters and poor penetration
- D) Electrode will freeze with the job

Answer: C) Excess spatters and poor penetration

25. Which type of arc produces humming sound?

- A) Long arc length
- B) Too long arc length
- C) Short arc length
- D) Normal arc length

Answer: A) Long arc length

26. Which arc length produces popping sound?

- A) Long arc length
- B) Too long arc length
- C) Normal arc length
- D) Short arc length

Answer: D) Short arc length

27. Which among the joints are covered under fillet group?

- A) Corner joint, Edge joint
- B) T joint, Lap joint
- C) T joint, Lap joint, Corner joint, Edge joint
- D) T joint, Corner joint

Answer: C) T joint, Lap joint, Corner joint, Edge joint

28. Which type polarity used in sheet metal welding?

- A) Straight polarity
- B) Rectifier set
- C) Reverse polarity
- D) AC Transformer

Answer: C) Reverse polarity

29. What is the size of nozzle suitable for welding 50mm dia pipe, with 3.15mm wall thickness?

- A) 7
- B) 10
- C) 5
- D) 13

Answer: A) 7

30. What is the purpose of fixing run on, run off plates in arc welding?

- A) Control arc blow
- B) Control porosity
- C) Control over heating
- D) Control distortion

Answer: A) Control arc blow

31. What should be the angle for a double bevel butt joint?

- A) 35 Degree
- B) 25 Degree
- C) 20 Degree
- D) 45 Degree

Answer: D) 45 Degree

32. What is the angle of electrode while welding in vertical position?

- A) 60 Degree to 70 Degree
- B) 80 Degree to 90 Degree
- C) 90 Degree to 100 Degree
- D) 70 Degree to 80 Degree

Answer: B) 80 Degree to 90 Degree

33. Which type of transformer used in arc welding?

- A) One - to - one
- B) Step up
- C) Step down
- D) Capable of increasing supply voltage

Answer: C) Step down

34. What arc length should be used to reduce the spatter?

- A) Normal arc length
- B) Short arc length
- C) Too long arc length
- D) Long arc length

Answer: A) Normal arc length

35. What is the name of joint if two members welded in the same plane?

- A) Butt joint
- B) Tee joint
- C) Lap joint
- D) Edge joint

Answer: A) Butt joint

36. What is the effect due to long arc in welding shown in drawing?

- A) More penetration
- B) Less penetration
- C) Less weld deposit
- D) Normal penetration

Answer: B) Less penetration

37. Which type of polarity is used in aluminium welding?

- A) Reverse polarity
- B) AC Transformer
- C) Rectifier set
- D) Straight polarity

Answer: A) Reverse polarity

38. Which types of arc length used in thin sheet metals?

- A) Deep short arc length
- B) Short arc length
- C) Long arc length
- D) Medium arc length

Answer: C) Long arc length

39. Which type of electrode produces short arc length?

- A) Light coated electrodes
- B) Heavy coated electrodes
- C) Medium coated electrodes
- D) Super heavy coated electrodes

Answer: B) Heavy coated electrodes

40. Which defect will occur, when the equipment is changed for AC to DC supply in arc welding?

- A) Over lap
- B) Arc blow
- C) Weld crack
- D) Distortion

Answer: B) Arc blow

41. Which is used for arc welding if there is no electric power supply?

- A) Motor generator set
- B) Engine generator set
- C) Transformer set
- D) Rectifier set

Answer: B) Engine generator set

42. Which one of the following do not assist fire?

- A) Ignition
- B) Oxygen
- C) Nitrogen
- D) Fuel

Answer: C) Nitrogen

43. Which position is advantageous for easy welding?

- A) Vertical
- B) Horizontal
- C) Flat
- D) Over head

Answer: C) Flat