

Duration: 30 Mins

Total Marks: 50

ID: ITISKILL4285CR

Student Name: _____	Roll No: _____
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1. Which metal in welding process is subjected to ?Weld decay? defect?

- A) Mild steel                      B) Stainless steel  
C) Brass                              D) Copper

2. Which size of CCMS filler rod is to be used for welding plate of 8mm thick with ?V? edge preparation?

- A) Dia 3.15 mm                      B) Dia 6.3 mm  
C) Dia 5.0 mm                        D) Dia 4.0 mm

3. Which type of cast iron is soft?

- A) Malleable cast iron              B) Grey cast iron  
C) White cast iron                    D) Nodular cast iron

4. How the repairs of cracks in cast iron component carried out?

- A) Similar to arc welding mild steel plate      B) By using clamps during welding process  
C) Cracks repaired using appropriate electrode      D) Local preheating, leftward welding technique flame heating each layer

5. Which process causes the increase in the strength of part after fabrication?

- A) Quenching                        B) Tempering  
C) Hardening                         D) Normalising

6. What is the composition of acetylene gas?

- A) C - 72.3% H - 27.7%              B) C - 82.3% H - 17.7%  
C) C - 90% H - 10%                    D) C - 92.3% H - 7.7%

7. Which one of the following methods of welding is not a method used to control distortion?

- A) Back step welding                  B) Intermittent welding  
C) Skip welding                         D) Right hand welding

8. How many segments are to be selected for welding 50 mm j pipe?

- A) 4 segments                         B) 8 segments  
C) 6 segments                         D) 3 segments

9. What will happen if the current is low while arc welding?

- A) Base metal edges not melt properly      B) Spatterns are more  
C) Electrode fused speedly              D) Formed over lap

10. What should be the bevel angle for edge preparation of 6mm thick pipe welding?

- A) 60 Degree - 65 Degree              B) 30 Degree - 35 Degree  
C) 70 Degree - 75 Degree              D) 40 Degree - 45 Degree

11. What is the purpose of cleaning of sheets before doing gas welding?

- A) To Control distortion                B) To avoid under cut  
C) To avoid porosity                    D) To avoid over lap

12. What are the standard electrode lengths available?

- A) 500mm and 600mm                  B) 250 mm and 350 mm  
C) 350 mm and 450 mm                  D) 400 mm and 500 mm

13. Why deposited bead is not in uniform size?

- A) Wrong angle of blow pipe      B) Wrong angle of filler rod  
C) Variation in speed of travel and angle      D) Incorrect flame setting

14. What flux is used in welding brass?

- A) Zinc chloride and potassium dichromate      B) Anti - borax  
C) Cryolite and berium chloride                  D) Borax paste

15. What are the four clock positions, in pipe welding?

- A) 6, 12, 3, 9'o clock points      B) 11, 5, 8, 2'o clock points  
C) 9,3, 12, 6'o clock points              D) 10,4, 1, 7'o clock points

16. What type of preheating is done only at the portions to be welded?

- A) Full preheating                      B) Direct preheating  
C) Indirect preheating                  D) Local preheating

17. What is the name of the steel material which are not weldable?

- A) Ferrite and martensitic stainless steel  
B) Medium carbon steel  
C) High carbon steel  
D) Austenitic stainless steel

18. What is the process of heating steel to specific temperature and cooling suddenly?

- A) Hardening  
B) Annealing  
C) Tempering  
D) Quenching

19. What is the process of hot weld joint rapidly hammered to relieve internal stresses?

- A) Heat treatment  
B) Annealing  
C) Peening  
D) Straightening

20. Which size of filler rod should be used to weld 2.5mm thick plates, using nozzle 5 by leftward technique?

- A) 1.60 mm  
B) 2.50 mm  
C) 2.00 mm  
D) 3.15 mm

21. What is the base for selecting the nozzle size for gas welding of a pipe?

- A) Pipe wall thickness  
B) Welding position  
C) Groove angle  
D) Diameter of pipe

22. What is the pre-heating temperature of cast iron?

- A) 250 to 350 Degree Centigrade  
B) 300 to 350 Degree Centigrade  
C) 350 to 450 Degree Centigrade  
D) 200 to 310 Degree Centigrade

23. What type of gas flame is used to weld 2mm mild steel by brazing method?

- A) Oxy-hydrogen flame  
B) Neutral flame  
C) Carburising flame  
D) Oxidising flame

24. What is the rule for deciding the length of intermediate tacks?

- A) 2 to 3 times plate thickness  
B) 5 times the plate thickness  
C) 3 to 4 times plate thickness  
D) 50mm irrespective of plate thickness

25. Which of the following aluminium alloys consists of 1% iron & silicon?

- A) Commercially pure aluminium  
B) Duralumin  
C) Aluminium cast alloy  
D) Wrought alloy

26. Which accessory is used to protect the eyes during gas welding?

- A) Colour goggles  
B) Hand screen

- C) Grinding goggles  
D) Helmet

27. What is the main reason, that aluminium is difficult to weld?

- A) High thermal conductivity  
B) Better strength weight ratio  
C) Oxide formation  
D) Less weight

28. Which of the following metals have high thermal conductivity?

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

29. What does the letter 'X' indicate in the electrode classification of EB5426 H1 J X?

- A) Hydrogen controlled electrode  
B) Covered electrode  
C) Increase metal recovery  
D) Radio graphic quality electrode

30. What is the angle of pipe axis with the base for making an elbow joint?

- A) 90 Degree  
B) 30 Degree  
C) 45 Degree  
D) 75 Degree

31. What size of electrode is used to weld 5 mm wall thickness pipe?

- A) Dia 2.5 mm  
B) Dia 5.00 mm  
C) Dia 4.00 mm  
D) Dia 3.15 mm

32. Which welding process enables to weld dissimilar metals?

- A) Brazing  
B) Spot welding  
C) Seam welding  
D) Fusion welding

33. What size of CCMS filler rod is used for finish run of Dia 50mm pipe root welded using Dia 1.65 filler?

- A) Dia 3.5 mm  
B) Dia 1.6 mm  
C) Dia 4.0 mm  
D) Dia 3.0 mm

34. Which gauging nozzle is selected for rivet head cutting?

- A) Flute cutting straight with six holes  
B) Straight nozzle with six pre-heating holes  
C) Bent nozzle with six holes  
D) Bent nozzle with three pre-heating holes

35. What is the effect of expansion and contraction due to heat in welding?

- A) Arc blow  
B) Peening  
C) Distortion  
D) Metal force

36. Which welding the slag inclusion defect will occur?

- A) Oxy - acetylene gas welding
- C) Malattic invert gas welding

- B) Tungsten invert gas welding
- D) Manual metal arc welding

37. What is the 6'o clock position in CW pipe welding refers to in 5G position?

- A) Vertical up hill position
- C) Horizontal position
- B) Over head position
- D) Down hand position

38. What is the use of intermediate tacks on a weld setting of plates?

- A) To control defects in weld joint
- C) To speed up the welding joint
- B) To reduce the welding run
- D) Align and to maintain the position of joint

39. What is the name of small metal particles which are thrown out of the arc during welding?

- A) Weld metal
- C) Slag
- B) Stub end
- D) Spatters

40. What procedure is followed in welding pipe in 5 G position?

- A) Pipe welded 12'o clock to 6'o clock downhill
- C) Rotate pipe and weld vertically
- B) Pipe not rotated and pipe axis 450
- D) Pipe not rotated weld verticality

41. What is the defect due to non cleaning the surfaces before welding?

- A) Lack of fusion
- C) Over lap
- B) Surface porosity
- D) Small cracks in bead

42. What does the third digit of AWS codification in EB 5426HJX represent?

- A) Type of covering
- C) Type of tensile strength
- B) Type of welding position
- D) Type of current

43. What is the bevel angle for pipe welding butt joint if wall

thickness is more than 5mm?

- A) 75 Degree
- C) 80 Degree
- B) 90 Degree
- D) 60 Degree

44. Which type of arc length produces poor penetration?

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

45. How is the scale and oxide removed from stainless steel weld?

- A) Cooling in sand
- C) Cooling in oil
- B) Heating up to 9500 to 11000C and quenched in water
- D) Peening

46. Which type of stainless steel is weldable?

- A) Chromium type
- C) Stabilized type
- B) Nickel type
- D) Ferrite type

47. Which type welding uses a non - ferrous filler with melting point above 450 Degree, than base metal?

- A) Soldering
- C) Arc welding
- B) Gas welding
- D) Brazing

48. What is the root run?

- A) The third run is root run
- C) The second run is root run
- B) Backing run
- D) The first run is root run

49. Which of the following produces unstable arc?

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

50. What benefit we get out of a carburising flame?

- A) Suitable for brass, copper welding
- C) Suitable for pure aluminium, cast iron & brass welding
- B) Suitable for mildsteel, stainless steel
- D) Suitable for stellite, flame cleaning