

## Welder Previously Asked Questions in PSU Jobs

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1. While soldering what action is applied on solder?
  - (A) Capillary action
  - (B) Gravitational force
  - (C) Magnetic action
  - (D) Electromagnetic force
2. Which one of these a pressure welding method?
  - (A) ARC welding
  - (B) Resistance welding
  - (C) Gas welding
  - (D) Thermit (fusion) welding
3. Which of the following is not an insulator?
  - (A) Gold
  - (B) Mica
  - (C) Glass
  - (D) Wood
4. Which type of fire extinguisher is used in a welding shop?
  - (A) Form type extinguisher
  - (B) Dry powder extinguisher
  - (C) CO<sub>2</sub> extinguisher
  - (D) Halon extinguisher
5. The term used to indicate amount of current flow in a circuit is called :
  - (A) Volt
  - (B) Ohm
  - (C) Farad
  - (D) Ampere
6. The depression formed at the end of the weld is named as :
  - (A) Pin hole
  - (B) Blowhole
  - (C) Crater
  - (D) Crack
7. The semicircular deposits on the weld head are called :
  - (A) Sealing run
  - (B) Reinforcement
  - (C) Crater
  - (D) Undercut
8. The angle formed between the line of the weld root and horizontal reference plane is called
  - (A) Weld slop
  - (B) Axis of the weld
  - (C) Weld rotation
  - (D) Weld angle
9. Transferred arc process and non transferred arc process are the classification of \_\_\_\_\_ welding process.
  - (A) Stud

- (B) Submerged arc
  - (C) Plasma
  - (D) Friction
10. In \_\_\_\_\_ position the pipe is 45° inclined and fixed and welding has been done in various positions.
- (A) 1G
  - (B) 2G
  - (C) 5G
  - (D) 6G
11. 212°C Fahrenheit is \_\_\_\_\_.
- (A) 50°C
  - (B) 25°C
  - (C) 75°C
  - (D) 100°C
12. Name the simplest test which uses sound to know that there is a crack in a weld
- (A) Stethoscopic
  - (B) Ultra sonic
  - (C) Gamma ray test
  - (D) X-ray test
13. Austenitic Stainless steel contains \_\_\_\_\_ % chromium.
- (A) 6 to 12
  - (B) 0.25 to 0.5
  - (C) 20 to 30
  - (D) 16 to 22
14. Which Instrument is used to mark straight line mark on base plate parallel to a plate edge?
- (A) Divider
  - (B) Outside caliper
  - (C) Odd leg caliper
  - (D) Inside caliper
15. Arc blow is found with welding of :
- (A) Bare electrode
  - (B) Low hydrogen electrode
  - (C) Coated electrode
  - (D) Heavy coated electrode
16. Lack of penetration is due to :
- (A) High current
  - (B) Short arc length
  - (C) Low current
  - (D) Too slow welding speed
17. Which one of the easiest welding position :
- (A) Vertical
  - (B) Horizontal
  - (C) Overhead
  - (D) Down hand
18. Two methods of flux coating on electrodes are :
- (A) Sucking and blowing
  - (B) Dipping and extrusion
  - (C) Blowing and pasting
  - (D) Blasting and heating

19. The purity of Acetylene is checked the filter paper soaked in 10% silver nitrate solution against the stream of acetylene. The filter paper changes in to :

- (A) Black Colour
- (B) Red colour
- (C) Blue colour
- (D) Brown colour

20. Which one of the following is a non destructive test?

- (A) Impact test
- (B) Nick break test
- (C) Tensile test
- (D) Magnetic particle test

21. The unit of measurement of heat is :

- (A) Centigrade
- (B) Fahrenheit
- (C) Calorie
- (D) Temperature

22. Which metal is more root opening, wider groove angle and more number of tack welds are essential in arc welding?

- (A) Copper
- (B) Mild steel
- (C) Cast iron
- (D) Stainless steel

23. Light hammering of the weld metal immediately after weld deposition. It is a method to prevent distortion :

- (A) Cracking
- (B) Peening
- (C) Knocking
- (D) Chipping

24. The third compartment contains in the purifier is :

- (A) Purifying chemicals
- (B) Pumice stone
- (C) Water
- (D) Filter wool

25. Name the metal which does not allow X-rays to pass through it :

- (A) Tin
- (B) Zinc
- (C) Lead
- (D) Copper

26. Which physical property of metals helps retaining the molten metal deposited on the joint in over head welding?

- (A) Thermal contraction
- (B) Surface tension
- (C) Magnetic attraction
- (D) Density

27. Friction welding is suitable to weld :

- (A) Rectangle Job
- (B) Square Job

- (C) Irregular Job
  - (D) Circular Job
28. The welding blow pipe nozzle size for welding 3 mm sheet :
- (A) 7
  - (B) 5
  - (C) 2
  - (D) 10
29. In arc welding eyes need to be protected against :
- (A) Intense glare
  - (B) Sparks
  - (C) Ultra violet rays
  - (D) Infra red rays
30. Which of the following welding process uses non consumable electrode?
- (A) Laser welding
  - (B) TIG welding
  - (C) MIG welding
  - (D) Thermit welding
31. The main criterion for selection of electrode diameter in arc welding :
- (A) Thickness of materials
  - (B) The materials to be welded
  - (C) Voltage used
  - (D) Current used
32. The cutting angle of a straight Snips is :
- (A) 70°
  - (B) 82°
  - (C) 87°
  - (D) 60°
33. Name the instrument /tool used for transfer and setting off distances :
- (A) Steel rule
  - (B) Straight edge
  - (C) L-Square
  - (D) Wing compass
34. The correct electrode angle is used in Arc welding with the weld line is :
- (A) 70-80°C
  - (B) 40-50°C
  - (C) 45°C
  - (D) 90°C
35. What is the identification of tip colour for 2% thorium added tungsten electrode?
- (A) Green
  - (B) Red
  - (C) Yellow
  - (D) Brown
36. What is the name of space left blank in the gas cutting?
- (A) Drag
  - (B) Kerf
  - (C) Groove
  - (D) Space
37. What type of heat treatment is used to get the original grain structure?
- (A) Tempering
  - (B) Hardening

- (C) Preheating
  - (D) Normalizing
38. Seam welding is a :
- (A) Multi spot welding process
  - (B) Used to form mess
  - (C) Continuous welding process
  - (D) Used for welding cylindrical Object
39. A non distinctive test requires a photographic film to be placed on one side of the Joint to be tested. What is the test?
- (A) Ultra sonic test
  - (B) Radiographic test
  - (C) Dye penetrate test
  - (D) Magnetic particle test
40. Welding Transformers are equipped with condensers. So as to :
- (A) Current factor
  - (B) Voltage factor
  - (C) Energy factor
  - (D) Power factor
41. In gas cut plate the cut shows grooves and has deep draglines. This is due to :
- (A) Tip too close to the cut surface
  - (B) Less oxygen pressure
  - (C) Too much Travel speed
  - (D) Smaller size cutting nozzle
42. Electrode holders are made out of :
- (A) Aluminum and their alloys
  - (B) Copper and their alloys
  - (C) Zinc and their alloys
  - (D) Steel and their alloys
43. An alloy used in Brazing process is :
- (A) Solder
  - (B) Thermit
  - (C) Lead
  - (D) Spelter
44. The tip angle of centre punch is :
- (A) 30°
  - (B) 90°
  - (C) 15°
  - (D) 60°
45. One type of inert gas welding is :
- (A) CO<sub>2</sub> welding
  - (B) Atomic hydrogen arc welding
  - (C) TIG welding
  - (D) Termite welding
46. The melting Temperature of Alumina (Al<sub>2</sub>O<sub>3</sub>) is :
- (A) 659°C
  - (B) 2030°C
  - (C) 1200°C
  - (D) 1650°C
47. Which position is tough to weld for beginners?
- (A) Flat

- (B) Horizontal
  - (C) Vertical
  - (D) Overhead
48. The deviation of arc is called arc blow. It is caused by :
- (A) Electrical disturbance
  - (B) Electronic disturbance
  - (C) Magnetic disturbance
  - (D) Radio disturbance
49. The two plates are lying in same plane and joint together. These types of Joints are called
- (A) Lap joint
  - (B) 'T' joint
  - (C) Edge joint
  - (D) Butt joint
50. The depth of fusion from the surface of the weld metal is :
- (A) Fusion zone
  - (B) Penetration
  - (C) Heat affected zone
  - (D) Leg length
51. The flux coating of electrode contains cellulosic material coating. These electrodes are
- (A) Low hydrogen
  - (B) Deep penetration electrode
  - (C) Iron powder electrode
  - (D) Heavy coated electrode
52. The left handed threaded valves is used in which gas cylinder?
- (A) C<sub>2</sub>H<sub>2</sub>
  - (B) O<sub>2</sub>
  - (C) CO<sub>2</sub>
  - (D) NH<sub>3</sub>
53. Granular flux and bare wire electrode is used in which type of welding?
- (A) MIG
  - (B) SAW
  - (C) TIG
  - (D) MAG
54. Which one of the following is cause backfire in Oxy Acetylene blow pipe?
- (A) Nozzle is over heated
  - (B) Nozzle orifice blocked
  - (C) Leakage near the nozzle
  - (D) Gas pressure setting is high
55. AWS code of electrodes starts with the letter 'E' followed by four digit number. What is the fourth digit number?
- (A) Welding position
  - (B) Type of flux coating
  - (C) Current condition
  - (D) Tensile Strength
56. Gray cast iron is a type of material which can weld. It contains \_\_\_\_\_ % of carbon.
- (A) 3 to 4%
  - (B) 6 to 8%

- (C) 1 to 2%
  - (D) 10 to 12%
57. In submerged arc welding A type of flux is used.
- (A) Powder
  - (B) Paste
  - (C) Granular
  - (D) Form
58. Fahrenheit scale is a type of meter scale. It has \_\_\_\_\_ equal division.
- (A) 100
  - (B) 180
  - (C) 80
  - (D) 120
59. The diameter of electrode and the arc length are equal. That type of arc length is called?
- (A) Long arc length
  - (B) Medium arc length
  - (C) Short arc length
  - (D) None of the above
60. Oxygen cylinders can store gas to a capacity of 7M<sup>3</sup> with the pressure ranging between :
- (A) 120-150 Kg/cm<sup>2</sup>
  - (B) 100-110 kg/cm<sup>2</sup>
  - (C) 150-180 Kg/cm<sup>2</sup>
  - (D) 50-60 Kg/cm<sup>2</sup>
61. The hottest temperature oxy acetylene flame is :
- (A) Neutral flame
  - (B) Carburizing flame
  - (C) Oxidizing flame
  - (D) Oxy LPG flame
62. The nozzle size of blow pipe for gas welding 4 mm thick plates :
- (A) 10
  - (B) 2
  - (C) 25
  - (D) 5
63. In high pressure oxy acetylene plant the maximum pressure of acetylene gas is :
- (A) 5 Kg/cm<sup>3</sup>
  - (B) 15 Kg/cm<sup>3</sup>
  - (C) 20 Kg/cm<sup>3</sup>
  - (D) 25 Kg/cm<sup>3</sup>
64. For complete combustion one volume of acetylene requires \_\_\_\_\_ volume of oxygen
- (A) 3
  - (B) 5
  - (C) 1.5
  - (D) 2.5
65. Commutators are made out of :
- (A) Mild segment
  - (B) Aluminum segments
  - (C) Copper segments
  - (D) Cast iron segments

66. In straight polarity the heat distribution in electrode side is :
- (A) 1/3
  - (B) 2/3
  - (C) 3/3
  - (D) 1/2
67. This metal transfer method is not used in MIG/MAG welding process
- (A) Spray transfer
  - (B) Repelled transfer
  - (C) Dip transfer
  - (D) Globular transfer
68. For all structural work ferrous metals are used. What is the advantage of ferrous metals over non ferrous metals?
- (A) Can be easily welded
  - (B) Available in large quantity
  - (C) Cheaper in large quantities
  - (D) Better mechanical and physical properties
69. Which is the correct method to remove the chips from the file?
- (A) Blow away the chip
  - (B) Blow the chip away
  - (C) Flush the chip with water
  - (D) Flush the chip with coolant
70. Intermittent welding method is used to :
- (A) Get uniform distribution of heat over welding joint
  - (B) Plates expanded to a lesser degree with head each
  - (C) Minimize the amount of weld metal
  - (D) Reduce the residual stress in joint
71. What is the correct procedure for reconditioning a bell mouthed tip of an oxy acetylene welding nozzle?
- (A) Filing the tip end
  - (B) Ream the orifice to a large size
  - (C) Replace the tip
  - (D) None
72. Argon gas cylinder is painted is \_\_\_\_\_ colour.
- (A) Red
  - (B) Brown
  - (C) Black
  - (D) Blue
73. S.I. unit of force is :
- (A) Watt
  - (B) Newton
  - (C) Joule
  - (D) Kg m
74. Mechanical efficiency of simple machine is?
- (A) Load/Effort
  - (B) Effort/load
  - (C) Mechanical advantage/velocity ratio
  - (D) Velocity ratio/mechanical Advantages
75. The property of which metal can be drawn into wires without breaking is known as :
- (A) Brittleness



- (B) Hardness
- (C) Malleability
- (D) Ductility

76. The size of the title block for all size of drawing sheet is \_\_\_\_\_ mm to \_\_\_\_\_ mm.

- (A) 110 to 225
- (B) 185 to 65
- (C) 200 to 30
- (D) 125 to 24

77. In first angle projection method the object comes between the \_\_\_\_\_ and the \_\_\_\_\_.

- (A) none of the below
- (B) observer and object
- (C) plane and object
- (D) observer and plane

78. In third angle projection method the plans comes between the \_\_\_\_\_ and the \_\_\_\_\_.

- (A) Observer and plane
- (B) Observer and object
- (C) Plane and object
- (D) None of the above

79. Centre lines locus lines and pitch circle are drawn as :

- (A) Thick continuous line
- (B) Thin continuous line
- (C) Long and thin chain lines
- (D) Dashed line of medium thickness

80. The form of a welded joint is specified by means of a symbol. Its location is indicated by an \_\_\_\_\_ and a \_\_\_\_\_.

- (A) Axis and size
- (B) Arrow and dashed line
- (C) Axis and centre lines
- (D) Arrow and reference line

81. To prevent leakage through the Riveted Joint. The plates are firmly forced together by \_\_\_\_\_ and \_\_\_\_\_.

- (A) Caulking and fullering
- (B) Punching and squeezing
- (C) Peening and pulling
- (D) Soldering and brazing

82. It is a temporary fastening :

- (A) Riveting
- (B) Nut and bolt
- (C) Soldering
- (D) Brazing

83. \_\_\_\_\_ is not an inert gas used in MAG welding.

- (A) Argon
- (B) Helium
- (C) CO<sub>2</sub>
- (D) Neon

84. Brass is a alloy of :

- (A) Copper and zinc

- (B) Copper and tin
  - (C) Copper and lead
  - (D) Copper and bronze
85. The operation consists of depositing a layer of hard metal on a softer base metal in order to provide surface having hardness and resistance to abrasion :
- (A) Hardening
  - (B) Hard facing
  - (C) Arc Welding
  - (D) Tempering
86. The melting point of tungsten is :
- (A) 1232°C
  - (B) 2200°C
  - (C) 1426°C
  - (D) 3410°C
87. Which defect can be found by visual examination of the weld joint?
- (A) Misalignment of parts
  - (B) Lack of fusion
  - (C) Root defect in a 'T' filler weld
  - (D) Inter lead slag inclusion
88. Which type of test is hazardous to the testing operator?
- (A) Ultrasonic test
  - (B) X-ray test
  - (C) Magnetic particle test
  - (D) Dye-penetrant test
89. In an examination 93% of the student passed and 259 failed. The total number of students must be :
- (A) 3950
  - (B) 500
  - (C) 3700
  - (D) None of the above
90. What is the size of gas nozzle used for 6 mm diameter tungsten in TIG welding process?
- (A) 10
  - (B) 11.5
  - (C) 12
  - (D) 16
91. What does the letter 'k' indicate in the electrode coating EB5426H1kX?
- (A) Iron powder electrode with 130 to 149% recovery
  - (B) Iron powder electrode with 110 to 129% recovery
  - (C) Radiography quality electrode
  - (D) Low hydrogen electrode
92. If a worker has suffered from electric shock, he should be :
- (A) Given an alcoholic drink
  - (B) Given a cold drink
  - (C) Made to walk
  - (D) Kept warm and covered
93. Which of the following resistance welding machine is used to join pipe sections end to end?
- (A) Projection
  - (B) Butt

(C) Spot

(D) Seam

94. In MIG/MAG welding filler wire is used, when the filler wire is copper coated?

(A) To prevent base metal reaction

(B) To prevent atmosphere

(C) To prevent gas shield

(D) To prevent rust

95. In which solution the filter paper is soaked to test the purity of generated acetylene gas?

(A) Copper sulphate

(B) Silver nitrate

(C) Caustic soda

(D) Sodium nitrate

96. \_\_\_\_\_ is the distance between the end of the contact tube and the tip of the electrode in GMAW process.

(A) Stick out

(B) Arc length

(C) Tip to work distance

(D) Gangue length