

Objective questions on MRT-10

1. Welding is a process of
a) Casting b) Machining c) Joining d) None of these.
2. What is the use of welding?
a) Cutting & Joining b) Only cutting c) Only joining d) None of these
3. Welding can't be done on?
a) Steel b) Titanium c) Wood d) Iron
4. Which one is the temporary joint?
a) Brazing b) Cotter Joint c) Soldering d) None of these
5. Flames used in Gas welding are
a) Neutral Flame b) Oxidising Flame c) Carburising Flame d) all the three
6. Welding arc produces
a) Ultraviolet rays b) X-rays c) Gamma Rays d) All the three
7. Welding is used in
a) Automobile industries b) Aeroplane industries c) Railways d) All the three
8. Advantages of welding are
a) Cheap b) High corrosion resistance c) Lighter d) All the three.
9. All these are welding joints except
a) Lap b) Butt c) T-joint d) Expansion
10. Double V and double U butt welds are used for the plates of thickness
a) Over 15 mm b) 10-15 mm c) 15-20 mm d) 20-25 mm
11. Most common gases used in Gas welding are
a) Oxygen b) Acetylene c) a & b d) Only b
12. Maximum Temperature in oxyacetylene welding is
a) 2000°C b) 4000°C c) 5000°C d) 3200°C
13. Which Flame has the maximum temperature?
a) Neutral Flame b) Oxidising Flame c) Carburising Flame d) all the three
14. Gas cylinder should be kept in position
a) Vertical b) Horizontal c) Flat d) Any of the three

15. Types of Arc in arc welding are
a) Normal or medium b) Long c) Short d) All the three
16. Maximum Temperature in Oxyacetylene welding flame will be
a) In outer cone b) In inner cone c) In middle cone d) None of these.
17. Equipment used in oxyacetylene welding is
a) Welding torch b) Welding rods c) Pressure regulator d) All the three
18. Safety equipment used in welding for welders is
a) Apron b) Gloves c) Goggles d) All the three
19. Colour of oxygen cylinder is:
a) Black b) Blue c) Maroon d) Yellow
20. Colour of Acetylene cylinder is:
a) Black b) Blue c) Maroon d) Yellow
21. Colour of oxygen hose pipe is:
a) Black b) Blue c) Maroon d) Yellow
22. Colour of Acetylene hose pipe is:
a) Red b) Blue c) Maroon d) Yellow
23. Which Flame is suitable for cutting operation?
a) Neutral Flame b) Oxidising Flame c) Carburising Flame d) All the three
24. Which flame is normally used for Steel?
a) Neutral Flame b) Oxidising Flame c) Carburising Flame d) All the three
25. Current used in Arc welding is
a) AC b) DC c) AC & DC both d) None of these
26. In arc welding, the source of heat is
a) Electric current b) Chemical reaction c) Gases d) None of these
27. DC machine used for Welding is
a) Welding generators b) AC transformer c) Welding Rectifiers d) a & c
28. In arc welding following is required
a) High current, low voltage b) High current, high voltage
c) Low current, high voltage d) Medium current, medium voltage

29. Welding rectifiers are used for
a) Converts DC in to AC
b) Converts AC in to DC
c) Converts Low voltage AC in high voltage AC
d) none of these.
30. Which device is used for clamping of Electrodes?
a) Hand screen b) Electrode holder c) Gloves d) Chipping hammer
31. Which device is used for removing slag?
a) Hand screen b) Electrode holder c) Gloves d) Chipping hammer
32. Which of the following welding produces the maximum temperature?
a) Thermal welding b) Plasma arc c) TIG d) MIG
33. Which one is not a type of Arc welding?
a) Resistance welding b) TIG c) MIG d) Thermal welding
34. Which welding is used in joining Rails?
a) Gas welding b) TIG c) MIG d) Thermal welding
35. Which one is not a welding defect?
a) Blow holes b) Under cut c) Spatter d) Surface roughness
36. In Thermal welding the heat is generated by
a) Chemical reaction b) Gas explosion c) Electric current d) a & c
37. Which one is used as flux?
a) Sand b) Salt c) Borax d) All of these.
38. Which welding is used to join pipes?
a) Resistance b) MIG c) TIG d) All of these
39. Which gas regulator should be closed first in gas welding?
a) Oxygen b) Acetylene c) Both d) none of these
40. Which gas regulator is to be opened first in gas welding?
a) Oxygen b) Acetylene c) Both d) none of these
41. What type of threads are present in Oxygen cylinder?
a) Right hand b) Left hand c) Both d) None of these
42. What is the chemical formula of acetylene gas?
a) C_2H_2 b) CH_2 c) C_2H_5 d) None of these

43. What is the maximum pressure in oxygen cylinder in kg/cm²?
 a) 150 b) 300 c) 400 d) 500
44. Which type of flame has maximum temperature in gas cutting?
 a) Neutral Flame b) Oxidising Flame c) Carburising Flame d) all the three
45. What is purpose of pre heating?
 a) To cut b) To join c) To heat d) To soften
46. What is the name of hole in the centre of nozzle of cutting torch?
 a) Orifice b) Hole c) Block d) None of these
47. Which flame is used for welding of cast iron?
 a) Neutral Flame b) Oxidising Flame c) Carburising Flame d) All the three
48. In Tee joint the edge preparation is not required in plate of thickness up to
 a) 10 mm b) 5 mm c) 15mm d) 50 mm
49. Solder is an alloy of following metals:
 a) Iron+ Silver b) Tin Silver c) Tin Lead d) None of these
50. The transformer used in arc welding is
 a) Step up b) Step down c) One to one d) None of these
51. Which is of the following falls under the class of a welding accident?
 a) Backfire b) Flashback c) Fire d) All of these
52. In resistance welding, heat generating factor is
 a) Current b) Voltage
 c) Resistance between electrode and base metal d) All of these
53. What is the equation of Joules law?
 a) $H=IR^2T$ b) $H=I^2RT$ c) $H=IRT^2$ d) None
54. Volume and pressure of Oxygen Cylinder in gas welding are
 a) 7m³, 120 to 150 kg/cm² b) 5.5m³, 120 to 150 kg/cm²
 c) 6m³, 160 to 190 kg/cm² d) 5.5m³, 160 to 190 kg/cm²
55. Volume and pressure of Acetylene Cylinder is
 a) 6m³, 15 to 16 kg/cm² b) 5.5m³, 15 to 16 kg/cm²
 c) 6m³, 20 to 22 kg/cm² d) 5.5m³, 20 to 125 kg/cm²
56. Which is not a type of welding torch?
 a) High pressure Torch b) Low pressure Torch
 c) Medium pressure torch d) Automatic Pressure torch

57. What is the ratio of acetylene to oxygen in neutral flame?
a) 1 b) >1 c) <1 d) None
58. What is the ratio of acetylene to oxygen in oxidizing flame?
a) 1 b) >1 c) <1 d) None
59. What is the ratio of acetylene to oxygen in reducing flame?
a) 1 b) >1 c) <1 d) None
60. Which one of these is not an NDT test?
a) Ultrasonic test b) Charpy Impact test c) Liquid penetrate test d) X ray test
61. What is coating factor (CF)?
a) $CF = \text{Coating Dia.} / \text{Dia. Of corewire}$ b) $CF = \text{Dia. Of corewire} / \text{Coating Dia.}$
c) $CF = \text{Coating Dia.} / \text{Dia. Of electrode}$ d) None of these
62. Which is a Fluxing agent?
a) Silica b) Lime Stone (CaO) c) Fluorspar d) None of these
63. Which is a type of position of welding?
a) Flat Position b) Vertical Position c) Overhead d) All of these
64. Welding is which type of joint?
a) Permanent Joint b) Semi permanent Joint
c) Temporary Joint d) All of these
65. What is the ratio of iron oxide to aluminium powder in thermit welding?
a) 1:3 b) 3:1 c) 4:1 d) 1:4
66. Heat is created by chemical reaction in
a) Resistance welding b) TIG c) MIG d) Thermit welding
67. In resistance welding , the electrode is made up of
a) Steel b) Copper c) Iron d) Tin
68. In TIG welding the distance maintained for Arc during the welding is
a) 1-3mm b) 10-15mm c) 5-10 mm d) None of these
69. What is the purpose of electrode in TIG welding?
a) As Filler Material b) To provide path for current flow
c) Both a&b d) None of these

70. What is the purpose of electrode in MIG welding?
a) As Filler Material b) To provide path for current flow
c) Both a&b d)None of these
71. In TIG welding, the thickness of weld metal is
a)Upto 6mm b)10-15mm c)6-10 mm d) None of these
72. In MIG welding, the thickness of weld metal is
73. In which welding, pressure is required?
a) Forge Welding b) Spot Welding c) Seam Welding d) All of these
74. In which welding, pressure is not required generally?
a) Forge Welding b) Spot Welding c) Seam Welding d) Thermit Welding
75. In following options which one is not suitable for welding?
a) Austenite b) Martensite c) Ferrite d) All of these.
76. What is inclusion?
a) Surface Defect b) Internal welding defect c) a&b d) None of these
77. Due to moisture which of the defect comes in picture?
a) Blow holes b) Porosity c) Inclusion d) None of these
78. In arc welding heat is generated due to resistance between
a) Electrode and Job piece b) Job to Job
c) Electrode to Electrode d) All of These
79. Plasma welding can be done in which medium?
a) Water b) Air c) a&b d) None of these
80. In welding process which parameter is mandatory?
a) Heat b) Pressure c) Filler rod d) Flux
81. Bronze is an alloy of following metals:
a) Iron+ Silver b) Tin+Silver c) Tin+Copper d) None of these
82. Which of these is a measuring instrument in Welding Shop?
a) Steel Rule b)Steel Tape c) Plumb Bob d) All of these
83. Which of these Welding doesn't require Filler Metal?
a) Fusion Welding b) Plastic or pressure Welding
c) Both a & b d) None of these

84. The colour of flame that Hydrogen produces is
a) Yellow b) Blue c) Red d) Black
85. Which gas is used in Cutting Blow Torch?
a) Oxygen b) Helium c) Hydrogen d) None of these
86. Which technique is used for welding M.S Plates upto 5 mm thick?
a) Leftward welding b) Rightward welding
c) Both A & B d) None of these
87. Which technique is used for welding M.S Plates more than 10 mm thick?
a) Leftward welding b) Rightward welding
c) Both A & B d) None of these
88. Stainless Steel is an Alloy of which metal?
a) Iron b) Chromium c) Nickel d) All of these
89. Which process is used to join thick parts?
a) Soldering b) Brazing c) Both d) None of these
90. Which of the following is the function of an Adapter?
a) To join different gas connections
b) To save the gas cylinder from overheating
c) To protect from Bank Fielding
d) None of these
91. What is the amount of voltage used for A.C Welding?
a) 5 V b) 80 V c) 1500 V d) 1000 V
92. Which of the following gas neither burns nor helps in burning?
a) Oxygen b) Hydrogen c) Argon d) None of these
93. Bronze electrode is made up of
a) Copper b) Tin c) Both d) None of these
94. What is the property of flux coating with respect to electricity?
a) Conductor b) Insulator c) Semi-Conductor d) None of these
95. What are the properties of a good Electrode Holder?
a) Properly insulated b) Better grip
c) Weight less than 750gm d) All the three

96. Which of the following is a type of a Transformer?
a) Oil cooled b) Air cooled c) Both a & b d) None of these
97. Which of these welding are performed in a single position only?
a) Plate Welding b) Pipe Welding c) Both a & b d) None of these
98. What is the depth of the fusion zone of Base Metal known as?
a) Porosity b) Crack c) Penetration d) None of these
99. What is the angle of plate in T-Joint?
a) Obtuse angle b) acute angle c) Right angle d) None of these
100. Which of the following is a reason for Undercut?
a) Excess welding current b) Excess supply current
c) Faster welding speed d) All of these