



PAPER –I WELDER (THEORY) SEMESTER – II (SESSION 2017 -2018) - NSQF LEVEL -4

TIME: 3 HRS.

MARKS: 150

Note: Attempt all the questions. All questions carry equal marks.

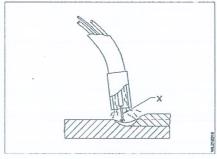
Choose the correct answer: -

- 1 Which part of the wire feed mechanism turns the drive roller smoothly and constantly for GMAW?
 - a) Centre guide

b) Drive motor

c) Wire feeder

- d) Wire spool holder
- 2 What is the name of the part marked 'X' in MIG/MAG torch assembly?



- a) Consumable electrode
- b) Shielding gas in

c) Current conductor

- d) Arc
- 3 Which gas mixture is used as shielding gas in GMAW spray transfer?
 - a) Argon-helium

b) Argon carbon-di-oxide

c) Argon-Oxygen

- d) Helium carbon-di-oxide
- In which metal transfer, the very fine droplets of the electrode wire are rapidly projected?
 - a) Pulsed Transfer

b) Spray transfer

c) Globular transfer

- d) Short circuit transfer
- 5 Which type of welding procedure is used for producing butt joints?
 - a) Fillet weld

b) Flange weld

c) Tack weld

- d) Groove weld
- 6 Which weld position is a down-hand position?
 - a) Flat position

b) Vertical position

c) Horizontal position

d) Over head position

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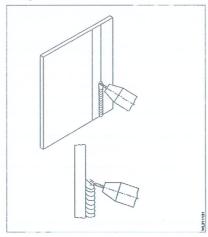


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7 What is the name of the weld position?



- a) Flat
- c) Overhead

- b) Vertical
- d) Horizontal
- 8 In which type of weld position, the metal is deposited from the upper side of the joint?
 - a) Flat

b) Vertical

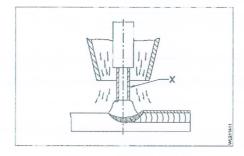
c) Overhead

- d) Horizontal
- 9 What is the remedy for the cause of wire feed speed is too high?
 - a) Select lower wire feed speed
- b) Select lower voltage range
- c) Use clean drive welding wire
- d) Use shorter electrode extension
- 10 What is the name of the defect shallow fusion between the weld metal and base metal?
 - a) Porosity

b) Lack of penetration

c) Incomplete fusion

- d) Excessive spatter
- 11 What is the name of the part marked 'X' in flux cored arc welding?



- a) Flux cored wire
- c) Slag covering

- b) Contact tube
- d) Nozzle
- 12 What is the name of the control of ignition, if the time taken for the welding current to reach the maximum value from the zero current?
 - a) Up slope

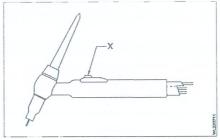
b) Pre flow

c) Down slope

d) Forced flow



13 What is the name of the part marked 'X'?



- a) Cap
- c) Handle

- b) Switch
- d) Washer
- 14 What is the colour of pure tungsten electrodes used for TIG welding?
 - a) Green

c) Yellow

- b) Blackd) Orange
- 15 Which part of the TIG torch is the storage area for the excess tungsten?
 - a) Leads

b) Back caps

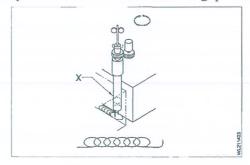
c) Collet

- d) Ceramic nozzles
- 16 What is the temperature produced by GTAW process?
 - a) 2500°F

b) 3250°F

c) 3000°F

- d) 3500°F
- 17 What is the name of the part marked 'X' in the narrow gap welding with arc rotation?



a) Contact tip

b) Bearing block

c) Rotating motor

- d) Electrode nozzle
- 18 Which welding process is used in hitech industries?
 - a) MIG welding

b) TIG welding

c) MAG welding

- d) SMA welding
- 19 Which method of metal transfer is used with most of the common welding wire electrodes in GMAW?
 - a) Pulse transfer

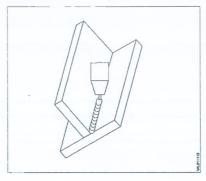
b) Spray transfer

c) Globular transfer

d) Short circuit transfer

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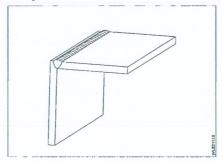
20 What is the name of the weld joint?



- a) Lap joint
- c) Corner joint

- b) Butt joint
- d) Tee joint

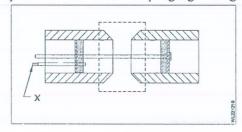
21 What is the name of the weld joint?



- a) Lap joint
- c) Tee joint

- b) Butt joint
- d) Outside corner joint

22 What is the name of the part marked 'X' in the purging arrangement pipe joint?



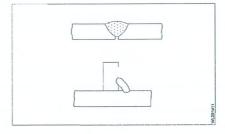
- a) Pipe
- c) Plywood

- b) Joint
- d) Purging gas inlet
- 23 What is the name of the defect if the pin holes occur in GTAW process?
 - a) Cracking
- c) Under cut

- b) Porosity
- d) Lack of penetration



24 What is the name of the defect in the weld?



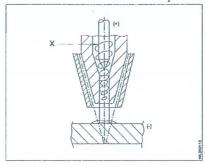
- a) Porosity
- c) Lack of fusion

- b) Incomplete penetration
- d) Under cut
- 25 Which method is low cost for cutting stainless steel?
 - a) Drilling

b) Gas cutting

c) Hacksawing

- d) Plasma arc cutting
- 26 What is the name of the part marked 'X' in dual flow plasma arc welding?



- a) Electrode
- c) Shielding gas

- b) Orifice gas
- d) Constructing nozzle
- 27 In which of the following welding process, the deposit rate and speed is high?
 - a) Submerged arc welding
- b) MIG welding

c) MAG welding

- d) TIG welding
- 28 Which welding process is limited to flat and horizontal position?
 - a) TIG welding

- b) MIG welding
- c) Submerged arc welding
- d) Flux cored arc welding
- 29 Which type of thermit contains a mixture of finely divided aluminium and iron oxide?
 - a) Rail welding thermit
- b) Forging thermit

c) Cast iron thermit

- d) Plain thermit
- 30 In which of the following welding process, the plates of 25 mm or more can be joined in one pass?
 - a) Electro slag welding
- b) Thermit welding

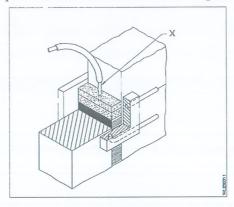
c) MAG welding

d) Submerged arc welding

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31 What is the name of the part marked 'X' in the electro slag welding?



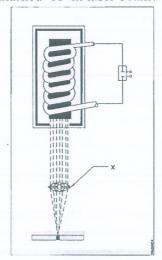
- a) Finished weld
- c) Molten slag

- b) Base metal
- d) Electrode
- 32 What is the limitation of electro slag welding?
 - a) Welding of very heavy plates b) Welding of thin plates
 - c) Welding of round rods
- d) Welding of pipes
- 33 Which welding process converts light energy into heat energy?
 - a) Electro slag welding
- b) Thermit welding
- c) Laser beam welding
- d) Submerged Arc welding
- 34 Which welding process is used for butt joint of large round rods?
 - a) Electro gas welding
- b) Thermit welding

c) Friction welding

- d) Electro slag welding
- 35 Which welding process is used to weld aeronautic components?
 - a) Friction welding

- b) Thermit welding
- c) Laser beam welding
- d) Submerged arc welding
- 36 What is the name of the part marked 'X' in laser beam?



- a) Focussing lens
- c) Ruby rod

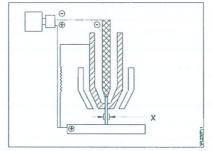
- b) Flash lamp
- d) Reflecting mirror

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37 Which welding process converts the kinetic energy of the high speed electrons to heat?

- a) Electron beam welding
- b) Laser beam welding
- c) Plasma arc welding
- d) Submerged arc welding
- 38 Which welding process uses the key hole method to obtain full penetration?
 - a) Laser beam welding
- b) Plasma arc welding
- c) Electron beam welding
- d) Submerged arc welding
- 39 What is the name of the part marked 'X' in the plasma arc welding?



- a) Orifice dia
- c) Nozzle

- b) Resistor
- d) Plasma gas
- 40 Which gas is used for plasma welding of carbon steel, titanium and zirconium materials?
 - a) Co₂

b) Hydrogen

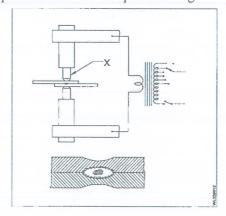
c) Helium

- d) Argon
- 41 In which type of the following resistance welding, the material to be joined is placed between two electrodes?
 - a) Butt welding

b) Seam welding

c) Spot welding

- d) Projection welding
- 42 What is the name of the part marked 'X' in spot welding?



- a) Throat
- c) Work piece

- b) Electrode
- d) Moveable arm
- 43 Which surface deposit method is used for smooth, precious and high quality finish?
 - a) TIG welding method
- b) MIG welding method
- c) Oxy-acetylene welding method
- d) Submerged arc welding method

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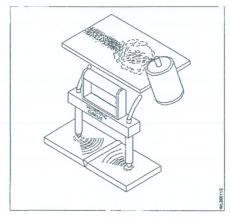
- 44 What will be the defect if the welding area of carbon steel and cast iron is not post heated?
 - a) Crack developed

b) Increase hardness

c) Reduce the stress

- d) Reduce cracking tendency
- 45 Which non-destructive test is used to test welded pressure vessels, tanks and pipe lines?
 - a) Visual test

- b) Magnetic test
- c) Leak or pressure test
- d) Stethoscopic test
- 46 What is the name of the non-destructive test?

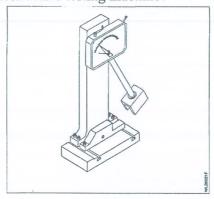


- a) 'X' ray test
- c) Magnetic particle test
- b) Ultrasonic test
- d) Gamma-ray test
- 47 Which type of destructive test are useful for testing welded rotating parts?
 - a) Impact test

b) Tensile test

c) Fatigue test

- d) Guided bend test
- 48 What is the name of the destructive testing machine?



- a) Impact testing machine
- c) Tensile testing machine
- b) Fatique testing machine
- d) Guided bend testing machine
- 49 Which tool is used to clean the bed after removing the spatter?
 - a) File

b) Chisel

c) Chipping hammer

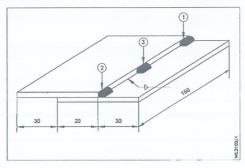
d) Carbon steel wire brush







50 What is the name of the weld?



- a) Flat weldingc) Corner welding

- b) Butt welding d) Tack welding

