

TRADE : FITTER-Jr.

MONTHLY TEST : WEEK NO. 17 TO 20

DATE :

SEAT NO :

TOTAL MARKS : 100 TIME : 2 Hrs. PAPER-I

TRADE CODE : 453

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

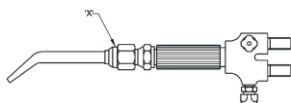
1. What is the method of welding process in which base metal edges are not melted?

- A) Arc - welding
- B) Soldering and brazing
- C) Gas welding
- D) Oxy - acetylene welding

2. Which type of thread in the acetylene gas cylinders?

- A) Acme thread B) Square thread
- C) Left hand thread D) Right hand thread

3. What is the name of the part marked 'x'?



- A) Mixing chamber
- B) Neck pipe with Nozzle
- C) Oxygen inlet connection
- D) Acetylene inlet connection

4. Which is used to convert AC into DC in AC welding transformer?

- A) Resistor B) Rectifier
- C) Capacitor D) Amplifier

5. What is the surface of a weld seen from the side from which the weld was made?

- A) Weld face B) Toe of weld
- C) Fusion face D) Weld junction

6. What is the purpose of welding hand screen?

- A) To protect the hand
- B) To protect the body
- C) To protect the head
- D) To protect the eyes and face

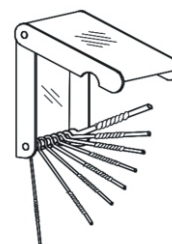
7. Which tool is used to open or close the gas cylinder valve in gas welding?

- A) Tongs B) Cylinder key
- C) Tip cleaner D) Double ended spanner

8. What is the range of coating factor for light coated electrodes?

- A) 1.0 to 1.5 B) 1.4 to 1.5
- C) 1.6 to 2.20 D) 1.25 to 1.30

9. What is the name of the device shown?



- A) Tongs
- B) Spark lighter
- C) Tip cleaner
- D) Chipping hammer

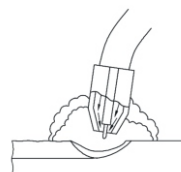
10. What is the name of distortion occurs in the weld direction?

- A) Angular distortion B) Bending distortion
- C) Longitudinal distortion
- D) Transverse distortion

11. What is the storing capacity of oxygen cylinder?

- A) 7 m3 B) 10 m3
- C) 14 m3 D) 15 m3

12. What is the welding process shown?



- A) SMAW
- B) Carbon Arc welding
- C) GMAW
- D) Co2 welding process

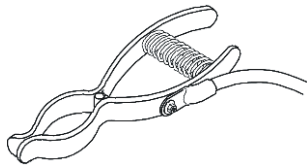
13. Why tack weld is done prior to welding process?

- A) To maintain level
- B) To maintain gap
- C) To maintain Penetration
- D) To maintain position of parts during welding

14. Which among the following is commonly used gas flame combination during welding?

- A) Oxy-coal
- B) Oxy-hydrogen
- C) Oxy-acetylene
- D) Oxy-liquid petroleum

15. What is the name of the device shown?



- A) Screw clamp
- B) Electrode holder
- C) Earth clamp
- D) Spring loaded clamp

16. Which type of filler rod is used in gas welding of stainless steel?

- A) Pure aluminium
- B) Copper silver alloy
- C) Columbium stainless steel
- D) Copper coated mild steel

17. Which type of flux coating is made with calcium fluoride (or) calcium carbonate?

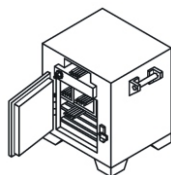
- A) Rutile
- B) Cellulosic
- C) Iron powder
- D) Basic coated (or) hydrogen - controlled

18. What is the percentage of carbon strengthening agent in mild steel electrode?

- A) 2.01%
- B) 0.1 to 0.3%
- C) 1.65%
- D) Above 0.5%

19. What is the name of the equipment shown?

- A) Electric furnace
- B) Slag removal oven
- C) Spatter removed oven
- D) Electrode drying oven



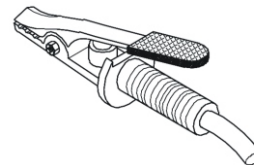
20. How gas cylinder are identified?

- A) By weight
- B) By pressure
- C) By storing capacity
- D) Both cylinders body colour and valve threads

21. What is the angle of the welding nozzle with the neck?

- A) 60°
- B) 90°
- C) 120°
- D) 150°

22. What is the name of device shown?



- A) Earth clamp
- B) Screw clamp
- C) Electrode holder
- D) Spring loaded clamp

23. What is the name of the metal edge in an angle during welding and cutting operations?

- A) Kerf
- B) Drag
- C) Bevel
- D) Gouging

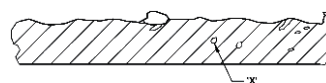
24. Which type of flux coating is made with titanium oxide?

- A) Rutile
- B) Iron powder
- C) Cellulosic
- D) Baric hydrogen controlled

25. What is the range of coating factor for heavy coated electrodes?

- A) 1.0 to 1.25
- B) 1.25 to 1.30
- C) 1.40 to 1.50
- D) 1.60 to 2.20

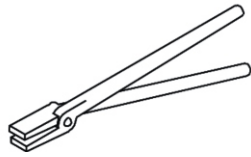
26. What is the name of defect marked 'X'?



- A) Porosity
- B) Blow hole
- C) Spatter
- D) Slag inclusion

27. What is the name of tool shown?

- A) Tongs
- B) Wire brush
- C) Hand screen
- D) Chipping hammer



28. Why humming sound effects during arc welding?

- A) Long arc length
- B) Speedy welding
- C) Short arc welding
- D) Normal arc length

29. What is the most common method of cutting mild steel using gas?

- A) Oxy - LPG cutting process
- B) Oxy - coal cutting process
- C) Oxy - Hydrogen cutting process
- D) Oxy-acetylene cutting process

30. What is the gap founded on metal called due to gas cutting operation?

- A) 'MERF'
- B) 'BERF'
- C) 'KERF'
- D) 'CHERF'

31. How many number of control valves are in a cutting blow pipe?

- A) Two
- B) Five
- C) Four
- D) Three

32. Which internal defect welding is invisible to naked eye?

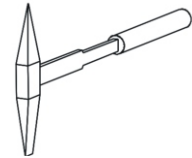
- A) Spatter
- B) Porosity
- C) Undercut
- D) Stray arc

33. Which polarity can be obtained when the electrode cable is connected to the positive terminal of DC welding machine?

- A) High polarity
- B) Reverse polarity
- C) Straight polarity
- D) Negative polarity

34. What is the name of tool shown?

- A) Claw hammer
- B) Chipping hammer
- C) Ball pein hammer
- D) Straight pein hammer

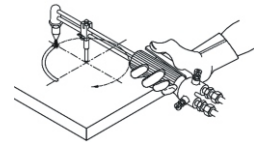


35. Which type of flux coating is made with a mixture of wood pulp and flour?

- A) Rutile
- B) Cellulosic
- C) Baric
- D) Iron powder

36. What kind of operation is shown in figure?

- A) Bevel cutting
- B) Semi-circle cutting
- C) Small Circle cutting
- D) Straight line cutting



37. What thickness of M.S. plate is cut using oxyacetylene cutting torch?

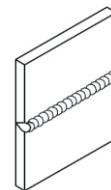
- A) Above 4 mm
- B) Below 4 mm
- C) Above 6 mm
- D) Above 8 mm

38. Which type of thread in the oxygen gas cylinders?

- A) Acme thread
- B) Square thread
- C) Left hand thread
- D) Right hand thread

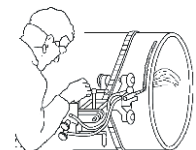
39. What is the name of welding position shown?

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



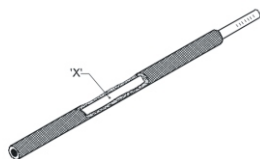
40. What is the name of the gas cutting machine shown?

- A) Bevel cutting machine
- B) Large circle cutting machine
- C) Straight line cutting machine
- D) Pipe cutting machine with manual control



41. What is the name of the part marked 'x'?

- A) Coating
- B) Core wire
- C) Bare end
- D) Striking end



42. Which gas cutting machine is used for circumferential cutting of pipes?

- A) Bevel cutting machine
- B) Pipe cutting machine
- C) Large circle cutting machine
- D) Small circle cutting machine

43. What will cause if the nozzle touches the molten pool??

- | | |
|--------------|---------------|
| A) Spark | B) Smoke |
| C) Back fire | D) Flash back |

44. What is the range of coating factor for medium coated electrodes?

- | | |
|-----------------|-------------------|
| A) 1.25 to 1.30 | B) 1.40 to 1.50 |
| C) 1.60 to 2.20 | D) 2.20 and above |

45. What is used to clean the containers which hold combustible substances before replacing with gas cutting equipment?

- A) Kerosene
- B) Caustic soda
- C) Carbon tetra chloride
- D) Both caustic soda and carbon tetrachloride

46. What is the name of the nozzle shown?

- A) Gouging
- B) Plate cutting
- C) Riser cutting
- D) Rivet cutting



47. What are the substances used for the stabilisation of the Arc?

- A) Deoxidizers
- B) Gas forming substances
- C) Arc stabilising substances
- D) Slag forming substances

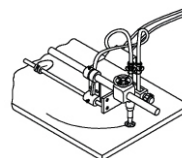
48. What is the colour of acetylene cylinder in oxyacetylene welding process?

- | | |
|----------|-----------|
| A) Red | B) Blue |
| C) Black | D) Maroon |

49. What is the colour of oxygen gas cylinder in oxy acetylene welding process?

- | | |
|----------|-----------|
| A) Red | B) Blue |
| C) Black | D) Maroon |

50. What is the name of the gas cutting machine shown ?



- A) Radial arm cutting machine
- B) Large circle cutting machine
- C) Straight line cutting machine
- D) Small circle cutting machine

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Month -05

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5.1**TRADE : FITTER-Jr.****MONTHLY TEST : WEEK NO. 17 TO 20**DATE : **PAPER-I**TRADE CODE : **453****TOTAL MARKS : 100****ANSWER KEY****Note : Attempt all the questions. All questions carry equal marks**

Q.No.	ANS
1	B
2	C
3	A
4	B
5	A
6	D
7	B
8	D
9	C
10	C
11	A
12	D
13	D
14	C
15	C
16	C
17	D
18	B
19	D
20	D
21	C
22	C
23	C
24	A
25	D

Q.No.	ANS
26	B
27	A
28	A
29	D
30	C
31	A
32	B
33	B
34	B
35	B
36	C
37	A
38	D
39	D
40	D
41	B
42	B
43	C
44	B
45	D
46	A
47	C
48	D
49	C
50	B