

TRADE : FITTER-Jr.**MONTHLY TEST : WEEK NO. 29 TO 32**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 product obtained from blast furnace?**

- A) Pig iron
- B) Cast iron
- C) Wrought iron
- D) Malleable iron

2. How much copper contains in pyrites ore?

- A) 32% B) 15%
- C) 50% D) 45%

3. What is the range of carbon content in cast iron alloy?

- A) 2 to 4%
- B) 5 to 9%
- C) 6 to 9%
- D) 10 to 12%

4. Which furnace is used to produce wrought iron?

- A) Blast furnace
- B) Cupola furnace
- C) Puddling furnace
- B) Electric arc furnace

5. Which ore is used to extract zinc?

- A) Bauxite B) Galena
- C) Calamine D) Cassiterite

6. Which cast iron has the ability to reduce vibration and tool chattering in machine tools?

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

7. Which metal is used to manufacture magnets, ball bearing and cutting tool?

- A) Cobalt
- B) Cadmium
- C) Vanadium
- D) Molybdenum

8. Which metal is resistant to many types of acids?

- A) Tin B) Lead
- C) Nickel D) Chromium

9. Which tool is used to check the internal clearance of the bearing?

- A) Steel rule
- B) Feeler gauge
- C) Depth gauge
- D) Vernier caliper

10. What is the value of one vernier division of a vernier micrometer?

- A) 0.01 mm
- B) 0.02 mm
- C) 0.009 mm
- D) 0.002 mm

11. ----- is the most commonly used flux in the blast furnace.

- A) Limestone B) Silica
- C) Dolomite D) Borax

12. The carbon from the coke in the form of carbon monoxide combines with the iron ore to reduce it to -----.

- A) Iron B) Wrought iron
- C) Cast iron D) Carbon dioxide

13. Why lime stone serves as flux added to the ore in the blast furnace?

- A) To form molter slag
- B) To supply the oxygen
- C) To bird the carbon in coke
- D) To increase the melting point of ore

14. Why agricultural equipment is made up of wrought iron?

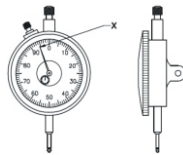
- A) Low cost
- B) Heavy weight
- C) Wear resistant
- D) Corrosion resistant

15. Why lime stone is added to the ore in the blast furnace ?

- A) To form molter slag
- B) To increase the melting point of ore
- C) To burnt the carbon in coke
- D) To supply the oxygen

16. What is the name of part marked 'x' in dial gauge?

- A) Anvil
- B) Stem
- C) Pointer
- D) Plunger



17. What is the angle of holding the scrapers for soft metal?

- A) 30°
- B) 60°
- C) 40°
- D) 20°

18. After grinding scraper for cutting edges the edges should be -----.

- A) Washing
- B) Oil stone honing
- C) Hardening
- D) Tempering

19. Which instrument is used to measure the effective diameter of screw threads?

- A) Screw pitch gauge
- B) Outside micrometer
- C) Screw thread micrometer
- D) Screw thread caliper gauge

20. Which factor determine the selection of wire in screw thread micrometer?

- A) Thread angle
- B) Type of thread and pitch
- C) Root and crest
- D) Major diameter

21. Why precision instruments are made of invar steel ?

- A) Durability
- B) Cheaper in cost
- C) Surface finishing is fine
- D) Least coefficient of expansion

22. What is name of the tool?



- A) Flat scraper
- B) Hook scraper
- C) Half round scraper
- D) Three square scraper

23. Which device is used in conjunction with dial test indicator?

- A) Chuck
- B) Stand
- C) Tool rest
- D) Bench vice

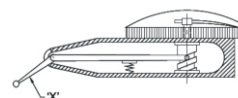
24. Which part indicates the reading of dial test indicator?

- A) Stem
- B) Anvil
- C) Pointer
- D) Plunger

25. The dial test indicator can show deviation up to -----.

- A) 0.2 mm
- B) 0.02 mm
- C) 0.001 mm
- D) 0.01 mm

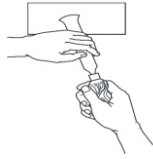
26. What is the name of the part marked 'X' of lever type dial test indicator?



- A) Pivot
- B) Lever
- C) Stylus
- D) Scroll

27. What is the name of operation?

- A) Filing
- B) Drilling
- C) Scraping
- D) Chiseling



28. Which comparator is used in mass production?

- A) Optical
- B) Pneumatic
- C) Electronics
- D) Mechanical

29. Cast iron is a ____ alloy.

- A) Eutectic
- B) Eutectoid
- C) Peritectic
- D) Peritectoid

30. How to identify high spots while scraping?

- A) Prussian blue
- B) White chalk
- C) Copper sulphate
- D) Cellulose lacquer

31. The process of removing high spots from bearing surfaces is called as -----.

- | | |
|-------------|------------|
| A) Reaming | B) Lapping |
| C) Scraping | D) Tapping |

32. What mechanism is used in the lever type dial test indicator?

- A) Screw and nut
- B) Rack and pinion
- C) Lever and scroll
- D) Worm and worm wheel

33. Which precision instrument is used for comparing and determining the variation in the sizes of the component?

- A) Micrometer
- B) Comparators
- C) Dial test indicator
- D) Vernier bevel protector

34. Which one among the following scrapers is used for scraping on bearing bush?

- A) Half round scraper
- B) Flat scraper
- C) Triangular scraper
- D) Round scraper

35. Which part of vernier micrometer is marked with vernier scale graduation?

- A) Anvil
- B) Frame
- C) Thimble
- D) Barrel

36. Which scraper is used for scraping large bearing surface?

- A) Flat scraper
- B) Hook scraper
- C) Triangular scraper
- D) Bull-nose scraper

37. How chipped out scraper can be repaired?

- A) Filing
- B) Lapping
- C) Chiseling
- D) Grinding or honing

38. The cutting angle of flat scraper should be ----.

- | | |
|---------------|---------------|
| A) 45° to 65° | B) 55° to 60° |
| C) 85° to 90° | D) 70° to 80° |

39. If the iron surface contains graphite, it is known as _____.

- A) Alloy cast iron
- B) White iron
- C) Grey iron
- D) Spheroidal graphite

40. Which scraper is used for scraping centre portion of large flat surfaces

- A) Hook scraper
- B) Three corner scraper
- C) Flat scraper
- D) Bull nose scraper

41. The principle of working of dial test indicator is

- A) Difference between two scales
- B) Screw thread
- C) Magnification of small movement of plunger on rotary scale
- D) None of these

42. Which part of dial test indicator allows zero to be set at any position on dial ?

- A) Back lug
- B) Stand
- C) Rotatable bezel
- D) Clamp

43. Copper is obtained from ----- ore.

- A) Galena
- B) Malachite
- C) Calamine or blende
- D) Bauxite

44. What is used for coating of steel sheets used for food containers ?

- A) Lead
- B) Tin
- C) Zinc
- D) Aluminium

45. In lever type dial test indicator, the magnification of stylus movement is obtained by -----.

- A) Rack and pinion
- B) Screw thread
- C) Lever and scroll
- D) None of these

46. Which type of dial test indicator can be operated in horizontal position ?

- A) Plunger Type
- B) Lever Type
- C) Both
- D) None of these

47. The copper, aluminium, lead, zinc are -----.

- A) Ferrous metals
- B) Non-ferrous metals
- C) Non metals
- D) Other

48. The brass is an alloy of -----.

- A) Copper and tin
- B) Lead and tin
- C) Copper and zinc
- D) Copper and Lead

49. Which of the following is used for making pressure tight components like pump and valve bodies

- A) Gliding Metal
- B) Muntz Metal
- C) Gun Metal
- D) Babbitt Metal

50. The instruments used for accurate of parts, working gauges and instruments with standards is called as -----.

- A) Dial test indicator
- B) Comparator
- C) Sine bar
- D) Slip gauges

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8.1**TRADE : FITTER-Jr.****MONTHLY TEST : WEEK NO. 29 TO 32**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	A
2	B
3	A
4	C
5	B
6	A
7	A
8	C
9	B
10	C
11	A
12	A
13	A
14	D
15	A
16	C
17	D
18	B
19	C
20	B
21	D
22	A
23	B
24	C
25	C

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