

TRADE : FITTER-Sr.

MONTHLY TEST : WEEK NO. 5 TO 8

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. Which chemical is used to clean measuring surfaces of slip gauges ?

- A) Sulphuric acid
 B) Nitric acid
 C) Carbon tetra chloride
 D) Sodium chloride

2. Which part of manual stroke honing tool stabilize and guide the tool in the workpiece ?

- A) Mandrel B) Stone and Holder
 C) Wedge D) Shoes

3. While building the size with slip gauges wringing should -----.

- A) Start with largest block and finish with shortest
 B) Start with smallest block and finish with longest
 C) Start with any block
 D) Start with middle block

4. Which grade of slip gauges is used for general workshop application ?

- A) Grade 00 B) Grade -I
 C) Grade 0 D) Grade - II

5. What is used on slip gauges for protection against rust ?

- A) Petroleum jelly B) Carbon
 C) Oil D) Grease

6. What among the following is used for protecting the exposed faces of the slip gauge pack from damage ?

- A) Hardened Block B) Protector Slips
 C) Petroleum Jelly D) None of the above

7. What is the material of slip gauges ?

- A) Non creep alloy steel
 B) High speed steel
 C) High grade steel with low thermal expansion
 D) Chrome steel

8. The grit size of abrasives used for honing is ranges from -----.

- A) 36 to 600 B) 36 to 800
 C) 50 to 800 D) 50 to 600

9. Grade - 0 slip gauges are used for -----.

- A) General workshop application
 B) For Inspection
 C) Standard for reference to test all other grades
 D) Precision tool room application

10. The act of joining the slip gauges together while building up to sizes is -----.

- A) Joining B) Wringing
 C) Fastening D) Sticking

11. Before wringing, the matching surfaces of slip gauges should be wiped clean with -----.

- A) Chamois Leather B) Soft Linen Cloth
 C) Either A or B D) Neither A or B

12. These grades of the slip gauges are recommended by BIS as per IS : 1984.

- A) Grade 00, Grade 0
 B) Grade i, Grade ii
 C) Grade 0, Grade i, Grade ii
 D) Grade 00, Grade i, Grade ii

13. As per Indian standard slip gauges set of 45 pieces is recommended as -----.

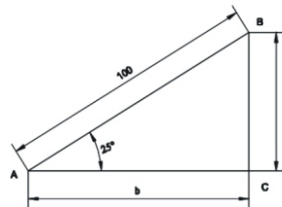
- A) Normal Set
- B) Special Set
- C) Popular Set
- D) Reference Set

14. Slip gauges are used as standards for -----
--.

- A) Precision Angular Measurement
- B) Layout work
- C) Precision Length Measurement
- D) Checking Accuracy of other gauges

15. What is the height of slip gauge ($25^\circ = 0.4226$)?

- A) 41.26 mm
- B) 42.26 mm
- C) 43.26 mm
- D) 44.26 mm



16. Which among the following grains honing stick is used to achieve better finishing?

- A) Coarse Grain
- B) Medium Grain
- C) Fine Grain
- D) All of the above

17. Which of the following is the use of sine bar?

- A) To check and set angles
- B) To measure distance between holes
- C) To measure width of job
- D) To measure height of job

18. In calculating angle by sine bar, the length of sine bar is ----- in right angle triangle.

- A) Adjacent side
- B) Hypotenuse
- C) Opposite side
- D) Taper length

19. Sine bar is made up of -----.

- A) Stabilized chromium steel
- B) High speed steel
- C) Mild steel
- D) High carbon steel

20. The grade of slip gauges for general workshop application -----.

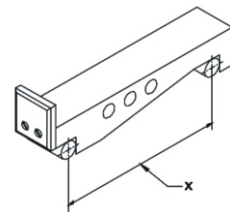
- A) Grade - 00
- B) Grade - 0
- C) Grade - i
- D) Grade - ii

21. Which of the following is the use of sine bar?

- A) To check and set angles
- B) To measure distance between holes
- C) To measure width of job
- D) To measure height of job

22. What is the name of the term marked 'X'?

- A) Length
- B) Depth surface
- C) Contact rollers
- D) Width



23. What type of an abrasive honing stick is used for honing a cast iron?

- A) Aluminium oxide
- B) Silicon Carbide
- C) Diamond
- D) All of the above

24. What is meant by length of sine bar?

- A) Overall length of sine bar
- B) Length of rollers
- C) Centre to centre distance between rollers
- D) None of these

25. Which abrasive honing stick is used for honing of hard steel?

- A) Aluminium Oxide
- B) Silicon Carbide
- C) Diamond
- D) All of the above

26. The principle of sine bar is based on -----
-----.

- A) Algebraic function
- B) Trigonometric function
- C) Logarithm
- D) Pythagoras theorem

27. What is the purpose of stopper provided at end of sine bar ?

- A) They provide support to slip gauges
- B) For easy handling
- C) To clamp on angle plate
- D) To prevent job from slipping

28. The patterns or certain lines on the work surface caused by the movement of cutting tool is known as -----.

- A) Surface texture B) Waviness
- C) Roughness D) Roughness spacing

29. The average distance between the dominant peaks (hills) on the effective profiled is called ----.

- A) Lay B) Irregularities
- C) Roughness D) Spacing

30. Hills and valleys of the surfaces can be checked by this machine -----.

- A) Profilometer
- B) Barometer
- C) Ammeter
- D) Lactometer

31. Surface roughness comparison standard box consists ----- blocks.

- A) 20 B) 22
- C) 25 D) 28

32. Surface texture is checked on the base of this term -----

- A) Finished surface by Machining
- B) Heat treatment on the surface
- C) Type of coating layer on surface
- D) Roughness and smoothness of surface

33. A product is said to have the quality when ---- -----.

- A) It appears to be very good
- B) Its shape and dimensions are within the limits
- C) It is fit for use
- D) The choice of material is right

34. Calculate the height of slip gauge if length of sine bar is 100 mm. and taper angle 30 degree ($\sin 30^\circ = 0.5$)

- A) 25 mm B) 30 mm
- C) 50 mm D) 40 mm

35. The stylus of surface indicator is made from - -----.

- A) High carbon steel
- B) Diamond
- C) High speed steel
- D) Mild steel

36. For general purpose the roughness values are designated in 12 grades. Identify them--

- A) 0 to 12
- B) 1 to 12
- C) N0 to N 12
- D) N1 to N12

37. Which part of the taly - surf controls the movement of measuring head cross the surface ?

- A) Recorder B) Amplifier
- C) Motor Race D) Analyser

38. Honing allowance is kept -----.

- A) 0.01 mm to 0.02 mm
- B) 0.05 mm to 0.10 mm
- C) 0.001 mm to 0.002 mm
- D) 0.005 mm to 0.01 mm

39. In honing operation, the movement or the spindle is -----.

- A) Vertical
- B) Reciprocating
- C) Vertical and Reciprocating
- D) Horizontal and Reciprocating

40. Which among the following is the 'Ra' value for surface roughness grade 'N 10' ?

- A) 6.3 μm
- B) 12.5 μm
- C) 25 μm
- D) 50 μm

41. The most commonly used method of expressing the surface texture quality numerically is by using -----.

- A) Ra Value B) Roughness Grade
- C) By symbol D) Any of the above

42. In honing the surface produced have cross hatched pattern because-----.

- A) Spindle moves horizontal & reciprocating
- B) Spindle moves rotary & reciprocating
- C) Spindle moves vertical & reciprocating
- D) Spindle moves reciprocating

43. What is the other name for surface finish ?

- A) Surface Texture
- B) Surface Topography
- C) Both A and B
- D) None of both A and B

44. Aluminium oxide is used for honing -----.

- A) Cast iron and non ferrous metals
- B) Copper and its alloys
- C) Tungsten, ceramics
- D) Steel

45. Which of the following statement is false about honing ?

- A) Bores of any size, length, blind or through can be honed
- B) Honing can be done in hardened or un - hardened state
- C) Honing can be done on flat surface
- D) Honing is used for finishing of bores in ferrous and non-ferrous materials

46. What type of abrasive honing stick is used for honing a cast iron?

- A) Aluminium Oxide
- B) Silicon Carbide
- C) Dimond
- D) All of the above

47. Which of the following is not a advantage of manual stroking in honing ?

- A) Jigs and fixtures are required
- B) Stroke length can be altered according to job
- C) Flexibility in operation
- D) Job can be reversed from end to end

48. Surface finish is defined by this characteristics -----.

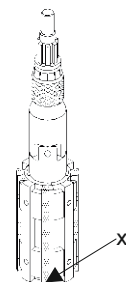
- A) Lay B) Surface Roughness
- C) Waviness D) All the above

49. Diamond is used for honing -----.

- A) Cast iron and non ferrous metals
- B) Copper and its alloys
- C) Tungsten, ceramics
- D) Steel

50 Power stroke honing tool is shown in the figure. Identify the name of part indicated by 'X'.

- A) Abrasive Stone
- B) Bronze Guide
- C) Expanding Cone
- D) Shoes



SCAN ME



www.visionprakashan.com

Month -02

New Syllabus _2022

Sector : Capital Goods And Manufacturing
Annual Pattern 2nd Year NSQF Level- 4
INDUSTRIAL TRAINING INSTITUTE

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

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