

**TRADE : FITTER-Jr.**

**MONTHLY TEST : WEEK NO. 33 TO 36**

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. The 'H' shaped part of carriage mounted on bed ways is -----.**

- A) Compound rest      B) Cross slide  
C) Saddle                D) Apron

**2. What is the unit of cutting speed?**

- A) mm/sec                B) m/sec  
C) m/min                D) mm/min

**3. Which angle of the tool prevents from getting jammed in the groove and causes breakage?**

- A) Side rake angle  
B) Side relief angle  
C) Side clearance angle  
B) Front clearance angle

**4. What is the material of lathe bed ?**

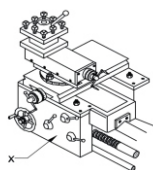
- A) Mild steel  
B) High speed steel  
C) Close grain cast iron  
B) Wrought iron

**5. Due to its brittleness and high cost ----- tool cannot be used as a solid tool.**

- A) High speed steel      B) Stellite  
C) Carbide                D) Ceramics

**6. What is the name of part marked as 'X' in centre lathe?**

- A) Apron  
B) Saddle  
C) Cross slide  
D) Compound rest



**7. What is the maximum swiveling angle of the compound rest in the lathe machine?**

- A) 90°                      B) 180°  
C) 220°                  D) 360°

**8. Which part of carriage supports tool post ?**

- A) Top slide                B) Cross slide  
C) Saddle                D) Apron

**9. Which tool materials are manufactured by powder metallurgy technique?**

- A) Carbides  
B) High speed steel  
C) High carbon steel  
D) Medium carbon steel

**10. Which part is mounted on saddle**

- A) Compound rest  
B) Cross slide  
C) Saddle  
B) Apron

**11. How many types of bed ways are in centre lathe machine?**

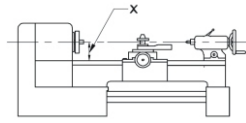
- A) 2                        B) 3  
C) 5                        D) 4

**12. The property of material to resist breakage due to sudden load is called -----.**

- A) Red hardness  
B) Cold hardness  
C) Toughness  
D) None of these

13. What is the name the specification of lathe marked as 'X' ?

- A) Bed length
- B) Centre height
- C) Swing diameter
- D) Between the center of lathe



14. Which type of cutting tool require special tool- holders ?

- A) Inserted bit with holder
- B) Solid tool
- C) Brazed tools
- D) Throw -away type tools

15. Which type of rake angle make slope from the front towards back of the tool?

- A) End rake angle
- B) Side rake angle
- C) Negative rake angle
- D) Positive top rake angle

16. Find out the spindle speed for turning dia 40mm cast iron rod, if the cutting speed is 15 m/min?

- A) 119.3 rpm
- B) 100.3 rpm
- C) 219.3 rpm
- D) 109.4 rpm

17. What is the merit of three jaw chuck in lathe machine?

- A) Work can be set with ease
- B) Run out cannot be corrected
- C) Only round and hexagonal components can be held
- D) Accuracy decreases as chuck gets worn out

18. Ceramics and diamonds belongs to which material group ?

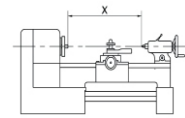
- A) Ferrous tool material
- B) Non -ferrous tool material
- C) Non-metallic tool material
- D) None of these

19. What will be the effect, if the carriage is not locked while facing?

- A) Correct face
- B) Convex face
- C) Concave face
- D) Pip left in the centre

20. What is the name of the lathe specification marked 'X'?

- A) Length of the bed
- B) Centre height of lathe
- C) Length between centre
- D) Diameter of work (Swing)

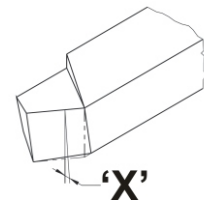


21. What type of cutting tool used in mass production?

- A) Solid tools
- B) Brazed tools
- C) Throw away type tools
- D) Inserted bits with holders

22. What is the name the angle marked as 'X' ?

- A) Side rake angle
- B) Side relief angle
- C) Side clearance angle
- D) Front clearance angle

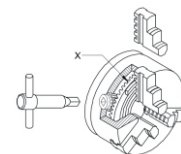


23. Which angle grounded on tool is useful in oblique cutting ?

- A) Approach angle
- B) Trail angle
- C) Rake angle
- D) Clearance angle

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

- A) Body
- B) Back plate
- C) External jaw
- D) Crown wheel



25. The right hand tool operates -----.

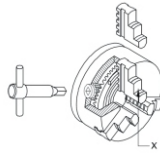
- A) From Tailstock towards the headstock
- B) From Head stock towards tailstock
- C) Square to axis of work
- D) None of these

26. What is the defect caused if the tool is not set to the correct centre height while facing?

- A) Convex face
- B) Concave face
- C) Pip left in the centre
- D) Rough surface on the face

**27. What is the name of part marked as 'x' of three jaw chuck?**

- A) Body
- B) Back plate
- C) External jaw
- D) Internal jaw



**28. What type of power transmission is transmitted by spur gear?**

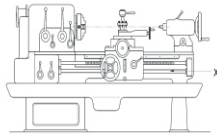
- A) Parallel transmission
- B) Angular transmission
- C) Intersecting transmission
- D) Perpendicular transmission

**29. Which type of head stock require more time to change spindle speeds ?**

- A) Cone pulley head stock
- B) All geared headstock
- C) Both
- D) None of these

**30. What is the name of the part marked 'X'?**

- A) Bed
- B) Tail stock
- C) Feed shaft
- D) Lead screw



**31. What is the name of the operation carried out in turning to remove burr and sharpness from the edge of component?**

- A) Grooving
- B) Chamfering
- C) Step turning
- D) Plain turning

**32. What is the de-merit of the four jaw chuck?**

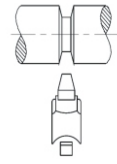
- A) Jaws are reversible
- B) Irregular shape job can be hold
- C) Heavy cuts can be given
- D) Small and finished work will be damaged

**33. What is the de-merit of 3 jaw chuck?**

- A) Work can be set with ease
- B) Internal and external jaws are available
- C) Accuracy decreases
- D) A wide range of cylindrical and hexagonal work can be held

**34. What is the type of operation is carried out?**

- A) Straight groove
- B) Vee groove
- C) Round groove
- D) Square groove



**35. In cone pulley head stock the power is transmitted by -----.**

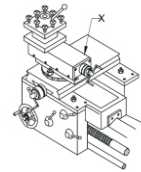
- A) Stepped pulleys
- B) Gear Train
- C) Chain
- D) Rope

**36. Which type of head stock contain shafts, gears and clutches ?**

- A) Cone pulley head stock
- B) All geared headstock
- C) Both
- D) None of these

**37. What is the name of the part marked 'X' in the lathe carriage?**

- A) Tool post
- B) Top slide
- C) Cross slide
- D) Saddle lock



**38. Which part of lathe transmit drive from main motor to work ?**

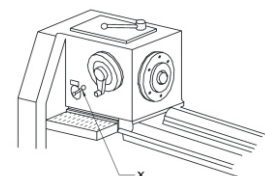
- A) Head stock
- B) Tailstock
- C) Carriage
- D) Bed

**39. What is the purpose of back gear unit in lathe machine?**

- A) Reduce the spindle speed
- B) Increase the spindle speed
- C) Quick change spindle speed
- D) To avoid abnormal impact on spindle

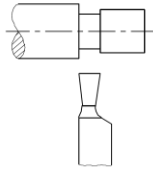
**40. What is the name of part marked as 'X'?**

- A) Clutch
- B) Feed selector
- C) Lathe spindle
- D) Feed direction lever



41. What is the name of operation?

- A) Square shoulder
- B) Filleted shoulder
- C) Bevelled shoulder
- D) Undercut shoulder



42. Which of the following taper have smaller taper angle and does not require locking devices ?

- A) Quick releasing taper
- B) Self holding taper
- C) A and B
- D) None of these

43. Which lathe operation is done to produce concentric and accurate sized hole ?

- A) Drilling
- B) Reaming
- C) Tapping
- D) Boring

44. The metric taper number indicates the ----- taper .

- A) Small Diameter
- B) Big Diameter
- C) Taper angle
- D) Length of taper

45. Which method is used in mass production for taper turning small lengths where accuracy is not a importance ?

- A) Form tool
- B) Tail stock offset method
- C) Compound slide method
- D) Taper turning by attachment

46. End cutting edge angle is also known as ----.

- A) Approach angle
- B) Trail angle
- C) Rake angle
- D) Clearance angle

47. Which taper is on outer of spindle nose on which face plate or chuck is fitted ?

- A) Morse Taper
- B) Brown and sharp Taper
- C) Jarno Taper
- D) Standard pin Taper

48. The uniform increase or decrease in diameter along length of job is called -----.

- A) Taper
- B) Shouldler
- C) Chamfer
- D) Bore

49. Internal taper cannot be turned by this method

- A) Form tool
- B) Tail stock offset method
- C) Compound slide method
- D) Taper turning by attachment

50. In which method of taper turning carriage should be locked ?

- A) Form tool
- B) Tail stock offset method
- C) Compound slide method
- D) Taper turning by attachment

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**Month -09**

New Syllabus \_2022

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**Annual Pattern 1st Year NSQF Level- 4**  
**INDUSTRIAL TRAINING INSTITUTE**

**9.1****TRADE : FITTER-Jr.****MONTHLY TEST : WEEK NO. 33 TO 36**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>C</b>
2	<b>C</b>
3	<b>B</b>
4	<b>C</b>
5	<b>C</b>
6	<b>A</b>
7	<b>D</b>
8	<b>A</b>
9	<b>A</b>
10	<b>B</b>
11	<b>B</b>
12	<b>C</b>
13	<b>B</b>
14	<b>D</b>
15	<b>D</b>
16	<b>A</b>
17	<b>A</b>
18	<b>C</b>
19	<b>B</b>
20	<b>C</b>
21	<b>C</b>
22	<b>C</b>
23	<b>A</b>
24	<b>D</b>
25	<b>A</b>

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