

May 2026

GOVT ITI HOLENARSIPURA

Question Paper

Duration: 90 Mins

Total Marks: 44

ID: ITISKILL3890SV

Student Name: _____	Roll No: _____
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1. What is the name of the pattern of work surface caused by the movement of cutting tool?

- | | |
|---------------------|--------------------|
| A) Roughness | B) Waviness |
| C) Roughness facing | D) Surface texture |

2. What is the type of fit for the expression Fit 25H7/p6?

- | | |
|---------------------|-------------------|
| A) Interference fit | B) Clearance fit |
| C) Running fit | D) Transition fit |

3. What is the hole basis system?

- | | |
|-------------------------------|---|
| A) Size of the hole is varied | B) Size of both hole and shaft are varied |
| C) Size of hole is constant | D) Size of shaft is constant |

4. Which axis the tool moves in taper turning attachment?

- | | |
|---------------------------|--------------------------------|
| A) Parallel to lathe axis | B) Perpendicular to lathe axis |
| C) Vertical to lathe axis | D) Angular to lathe axis |

5. Which is used to prevent concentration of abrasives on lapping surface?

- | | |
|-------------|------------|
| A) Absorber | B) Vehicle |
| C) Retainer | D) Holder |

6. What is the heating temperature in gas nitriding process?

- | | |
|--------------------------|--------------------------|
| A) Up 500 Degree Celsius | B) Up 200 Degree Celsius |
| C) Up 400 Degree Celsius | D) Up 300 Degree Celsius |

7. Which one of the following is the solid carburizing material?

- | | |
|------------|-------------|
| A) Petrol | B) Kerosene |
| C) Ammonia | D) Charcoal |

8. What is the types of fit for the expression 20H7/g6?

- | | |
|-------------------|---------------------|
| A) Clearance fit | B) Interference fit |
| C) Transition fit | D) Force fit |

9. What is the representation of zero line in limit and fits?

- | | |
|-----------------|-------------------|
| A) Nominal size | B) Basic size |
| C) Actual size | D) Tolerance size |

10. Which one of the following is disadvantages of taper turning by attachments?

- | | |
|---------------------------------|--|
| A) Power feed can be produced | B) Both external and internal tapers can be produced |
| C) Length taper can be produced | D) Only limited taper angle can be turned |

11. Which one of the following heat treatment process produces a scale free surface on the components?

- | | |
|--------------------|------------------------|
| A) Case hardening | B) Induction hardening |
| C) Flame hardening | D) Nitriding |

12. What is 7 with expression of fit 30H7/g6?

- | | |
|-----------------------------|-----------------------------|
| A) Shaft and hole allowance | B) Shaft and hole tolerance |
| C) Hole tolerance grade | D) Shaft tolerance grade |

13. Which of the following abrasive is preferred for lapping soft steels and non-ferrous metal?

- | | |
|--------------------|---------------------|
| A) Aluminium oxide | B) Silicon carbide |
| C) Boron carbide | D) Natural corundum |

14. Which of the following structures of steel is obtained due to the drastic cooling from the austenite structure?

- | | |
|--------------|---------------|
| A) Ferrite | B) Martensite |
| C) Cementite | D) Pearlite |

15. Which heat process is increase the toughness and decrease the brittleness?

- | | |
|----------------|-------------------|
| A) Normalizing | B) Tempering |
| C) Annealing | D) Case hardening |

16. Which one of the following is disadvantage of tailstock offset method?

- | | |
|---|--|
| A) External taper thread can be produce | B) Good surface finish can be obtained |
| C) Power feed can be given | D) Only external taper can be turned |

17. What is direction of finishing in surface texture?

- | | |
|--------------|-------------|
| A) Roughness | B) Waviness |
| C) Lay | D) Flaw |

18. Which material is used to make the stylus of mechanical surface indicator?

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

19. Which deviation is zero in hole basis system?

- A) Upper deviation is zero
- B) Lower deviation is zero
- C) Both upper and lower deviation is below basic size
- D) Both upper and lower deviation is zero

20. What is 'L' in tailstock offset method?

- A) Amount taper
- B) Length of the taper
- C) Length of the job
- D) Length of offset

21. Where the taper threads are used?

- A) Stud
- B) Wood screw
- C) Nut
- D) Bolt

22. How the turning tool is moving in tail stock offset method?

- A) Vertical to lathe axis
- B) Angular to lathe axis
- C) Parallel to lathe axis
- D) Perpendicular to lathe axis

23. What is the type of fit if minimum size of the shaft is larger than maximum size of hole?

- A) Transition
- B) Running
- C) Interference
- D) Clearance

24. Which one of the advantage of mass production?

- A) Gauges are to be used
- B) Jigs and fixture are needed
- C) Special purpose machinery are necessary
- D) Time for manufacturing of components is reduced

25. Which of the following property of metal is impart by annealing?

- A) Toughness
- B) Hardness
- C) Ductility
- D) Surface hardness

26. Which heat treatment process is used to reduce internal stresses of a hardened tool?

- A) Tempering
- B) Annealing
- C) Normalizing
- D) Stabilizing

27. Which metal is to be case hardened?

- A) Cast iron (heavy parts)
- B) Alloy steel parts
- C) Low carbon steel parts
- D) High carbon steel

28. What is the representation IT in limits and fits?

- A) Tolerance unit
- C) Tolerance

- B) Tolerance grade
- D) Tolerance number

29. Which deviation is zero in shft basis system?

- A) Both upper and lower deviation is zero
- B) Lower deviation is zero
- C) Both upper and lower deviation is below basic size
- D) Upper deviation is zero

30. How many fundamental deviations are recommended by BIS?

- A) 24
- B) 25
- C) 20
- D) 30

31. Which surface is finished by honing?

- A) Both external and internal surface
- B) Flat surface
- C) External cylindrical surface
- D) Internal cylindrical surface

32. Which letter represents basic hole?

- A) BH
- B) h
- C) H
- D) Bh

33. What does AQL stands for?

- A) Aquired quality limit
- B) Another quality limit
- C) Acceptance quality level
- D) Acceptance quality limit

34. What is the purpose of normalizing steel?

- A) Soften the steel
- B) Increase the toughness and reduce brittleness
- C) Remove induced stresses
- D) Improve machinability

35. What is the unit of deviation in limits and fits?

- A) Millimeter
- B) Micron
- C) Centimeter
- D) Mill micron

36. What is the type of fit in expression 75 H8/j7?

- A) Interference fit
- B) Clearance fit
- C) Force fit
- D) Transition fit

37. Why heat treatment of metal is necessary?

- A) To make the metal rust-proof
- B) To make good appearance on the component
- C) To produce certain desired properties
- D) To increase strength of the metal

38. What is the process of increasing carbon percentage on the surface of low carbon steel?

- A) Nitriding
- B) Tempering

C) Hardening

D) Carburizing

C) Upto 300 Degree
Centigrade

D) Upto 400 Degree
Centigrade

39. What does QA and QC stand for?

A) Quality assurance and
quenching control

B) Quality assurance and
quenching control

C) Quality adjustment and
quality complete

D) Quality assurance and
quality control

40. What is the type of fit if minimum size of hole is larger than maximum size of shaft?

A) Interference

B) Clearance

C) Force

D) Transition

41. What is the preheating temperature of steel?

A) Upto 500 Degree
Centigrade

B) Upto 600 Degree
Centigrade

42. Which gas is used in nitriding process?

A) Carbon dioxide

B) Helium

C) Hydrogen

D) Ammonia

43. What heat treatment process the nitriding comes under?

A) Case hardening

B) Hardening

C) Tempering

D) Normalizing

44. In Which case hardening process the ammonia gas is introduced?

A) Cyaniding

B) Induction hardening

C) Carburizing

D) Gas nitriding