

Duration: 90 Mins

Total Marks: 44

Q.ID: ITISKILL3890SV

1. What heat treatment process the nitriding comes under?

- A) Tempering B) Case hardening
C) Hardening D) Normalizing

Answer: B) Case hardening

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

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

Answer: C) Tempering

3. What does AQL stands for?

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

Answer: A) Acceptance quality limit

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

- A) Carburizing B) Gas nitriding
C) Cyaniding D) Induction hardening

Answer: B) Gas nitriding

5. Which deviation is zero in shprt basis system?

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

Answer: C) Upper devication is zero

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

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

Answer: C) Martensite

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

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

Answer: C) Only limited taper angle can be turned

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

- A) Length of the taper B) Length of the job

C) Length of offset

D) Amount taper

Answer: B) Length of the job

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

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

Answer: A) Interference

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

- A) Nitriding B) Hardening
C) Carburizing D) Tempering

Answer: C) Carburizing

11. Where the taper threads are used?

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

Answer: C) Wood screw

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

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

Answer: C) Vehicle

13. Which deviation is zero in hole basis system?

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

Answer: D) Lower deviation is zero

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

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

Answer: B) Tempering

15. How many fundamental deviations are recommended by BIS?

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

Answer: C) 25

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

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

Answer: B) Clearance fit

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

- A) Tolerance unit
- B) Tolerance grade
- C) Tolerance
- D) Tolerance number

Answer: B) Tolerance grade

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

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

Answer: B) Diamond

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

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

Answer: C) Micron

20. Why heat treatment of metal is necessary?

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

Answer: D) To produce certain desired properties

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

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

Answer: A) Ductility

22. Which surface is finished by honing?

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

Answer: C) Internal cylindrical surface

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

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

Answer: D) Interference fit

24. Which gas is used in nitriding process?

- A) Carbon dioxide
- B) Ammonia
- C) Helium
- D) Hydrogen

Answer: B) Ammonia

25. Which letter represents basic hole?

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

Answer: A) h

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

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

Answer: C) Charcoal

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

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

Answer: B) Transition fit

28. What is the hole basis system?

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

Answer: C) Size of hole is constant

29. What is the purpose of normalizing steel?

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

Answer: D) Remove induced stresses

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

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

Answer: A) Angular to lathe axis

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

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

Answer: A) Basic size

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

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

Answer: D) Up 500 Degree Celsius

33. What is the name of the pattern of work surface caused by the movement of cutting tool?

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

Answer: D) Surface texture

34. What is the preheating temperature of steel?

- A) Upto 300 Degree Centigrade B) Upto 500 Degree Centigrade
C) Upto 600 Degree Centigrade D) Upto 400 Degree Centigrade

Answer: C) Upto 600 Degree Centigrade

35. Which one of the advantage of mass production?

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

Answer: A) Time for manufacturing of components is reduced

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

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

Answer: A) Aluminium oxide

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

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

Answer: A) Clearance

38. Which metal is to be case hardened?

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

Answer: D) Low carbon steel parts

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

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

Answer: A) Hole tolerance grade

40. How the turning tool is moving in tail strock offset method?

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

Answer: C) Parallel to lathe axis

41. What does QA and QC stand for?

- A) Quality assurance and quenching control B) Quality assurance and quenching control
C) Quality assurance and quality control D) Quality adjustment and quality complete

Answer: C) Quality assurance and quality control

42. What is direction of finishing in surface texture?

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

Answer: B) Lay

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

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

Answer: C) Only external taper can be turned

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

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

Answer: C) Induction hardening