

Duration: 30 Mins

Total Marks: 44

Q.ID: ITISKILL4486JR

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

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

**Answer: D) Up 500 Degree Celsius**

2. Why heat treatment of metal is necessary?

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

**Answer: C) To produce certain desired properties**

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

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

**Answer: A) Gas nitriding**

4. Which letter represents basic hole?

- A) h      B) BH  
C) H      D) Bh

**Answer: A) h**

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

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

**Answer: D) Carburizing**

6. How many fundamental deviations are recommended by BIS?

- A) 24      B) 25  
C) 20      D) 30

**Answer: B) 25**

7. What is direction of finishing in surface texture?

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

**Answer: A) Lay**

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

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

**Answer: D) Hole tolerance grade**

9. Which one of the advantage of mass production?

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

**Answer: D) Time for manufacturing of components is reduced**

10. Which deviation is zero in shft basis system?

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

**Answer: D) Upper deviation is zero**

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

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

**Answer: C) Surface texture**

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

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

**Answer: B) Only limited taper angle can be turned**

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

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

**Answer: B) Angular to lathe axis**

14. What is the preheating temperature of steel?

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

**Answer: C) Upto 600 Degree Centigrade**

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

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

**Answer: D) Vehicle**

16. Which one of the following is the solid carburizing

material?

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

**Answer: D) Charcoal**

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

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

**Answer: B) Ductility**

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

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

**Answer: A) Only external taper can be turned**

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

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

**Answer: D) Aluminium oxide**

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

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

**Answer: D) Interference fit**

**21.** 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**

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

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

**Answer: D) Micron**

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

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

**Answer: A) Parallel to lathe axis**

**24.** What is 'L' in tailstock offset method?

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

**Answer: C) Length of the job**

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

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

**Answer: C) Tempering**

**26.** What does AQL stands for?

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

**Answer: B) Acceptance quality limit**

**27.** What is the purpose of normalizing steel?

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

**Answer: B) Remove induced stresses**

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

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

**Answer: D) Diamond**

**29.** What heat treatment process the nitriding comes under?

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

**Answer: C) Case hardening**

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

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

**Answer: B) Clearance**

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

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

**Answer: C) Interference**

**32.** Which gas is used in nitriding process?

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

**Answer: C) Ammonia**

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

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

**Answer: A) Induction hardening**

**34.** What is the hole basis system?

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

**Answer: B) Size of hole is constant**

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

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

**Answer: B) Clearance fit**

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

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

**Answer: A) Basic size**

**37.** What is the representation IT in limits and fits?

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

**Answer: B) Tolerance grade**

**38.** Which metal is to be case hardened?

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

**Answer: D) Low carbon steel parts**

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

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

**Answer: C) Martensite**

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

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

**Answer: A) Tempering**

**41.** Where the taper threads are used?

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

**Answer: A) Wood screw**

**42.** Which surface is finished by honing?

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

**Answer: D) Internal cylindrical surface**

**43.** What does QA and QC stand for?

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

**Answer: A) Quality assurance and quality control**

**44.** Which deviation is zero in hole basis system?

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

**Answer: C) Lower deviation is zero**