

Duration: 30 Mins

Total Marks: 44

ID: ITISKILL78336Y

Student Name: _____	Roll No: _____
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1. What is direction of finishing in surface texture?

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

2. 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

3. How many fundamental deviations are recommended by BIS?

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

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

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

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

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

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

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

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

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

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

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

9. What is the hole basis system?

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

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

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

11. What heat treatment process the nitriding comes under?

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

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

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

13. Why heat treatment of metal is necessary?

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

14. Which gas is used in nitriding process?

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

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

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

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

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

17. What is the preheating temperature of steel?

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

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

- A) Interference fit
- C) Force fit

- B) Transition fit
- D) Clearance fit

19. Which one of the advantage of mass production?

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

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

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

21. Where the taper threads are used?

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

22. What does AQL stands for?

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

23. What is the purpose of normalizing steel?

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

24. Which deviation is zero in hole basis system?

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

25. What does QA and QC stand for?

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

26. Which deviation is zero in shftrt basis system?

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

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

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

28. Which of the following property of metal is impart by

annealing?

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

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

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

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

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

31. Which surface is finished by honing?

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

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

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

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

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

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

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

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

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

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

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

37. Which letter represents basic hole?

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

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

- A) Length taper can be produced
- B) Both external and internal tapers can be produced

C) Only limited taper angle can be turned D) Power feed can be produced

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

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

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

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

41. Which metal is to be case hardened?

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

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

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

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

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

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

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