

ITI Quiz - 17-Apr-2026

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Q. ID: ITISKILL1949KZ

April 2026

Govt ITI MULABAGAL

Answer Key

Duration: 30 Mins

Total Marks: 44

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1. Which deviation is zero in shft basis system?

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

Answer: B) Upper deviation is zero

2. 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

Answer: B) Lower deviation is zero

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

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

Answer: C) Up 500 Degree Celsius

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

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

Answer: B) Basic size

5. Which metal is to be case hardened?

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

Answer: B) Low carbon steel parts

6. Why heat treatment of metal is necessary?

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

Answer: B) To produce certain desired properties

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

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

Answer: C) Tempering

8. What is the preheating temperature of steel?

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

Answer: B) Upto 600 Degree Centigrade

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

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

Answer: B) Tempering

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

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

Answer: D) Clearance

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

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

Answer: D) Clearance fit

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

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

Answer: B) Micron

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

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

Answer: D) Interference fit

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

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

Answer: D) Surface texture

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

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

Answer: A) Tolerance grade

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

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

Answer: A) Parallel to lathe axis

17. What is the purpose of normalizing steel?

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

Answer: C) Remove induced stresses

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

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

Answer: C) Hole tolerance grade

19. 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

20. Which letter represents basic hole?

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

Answer: C) h

21. Which gas is used in nitriding process?

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

Answer: B) Ammonia

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

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

Answer: C) Only limited taper angle can be turned

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

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

Answer: C) Diamond

24. How many fundamental deviations are recommended by BIS?

- A) 20
- B) 24

C) 30

D) 25

Answer: D) 25

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

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

Answer: C) Length of the job

26. Which one of the advantage of mass production?

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

Answer: A) Time for manufacturing of components is reduced

27. Which surface is finished by honing?

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

Answer: D) Internal cylindrical surface

28. Where the taper threads are used?

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

Answer: A) Wood screw

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

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

Answer: C) Interference

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

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

Answer: B) Ductility

31. What heat treatment process the nitriding comes under?

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

Answer: B) Case hardening

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

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

Answer: D) Angular to lathe axis

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

- A) Cementite
- B) Martensite

C) Ferrite

D) Pearlite

Answer: B) Martensite

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

A) Hardening

B) Nitriding

C) Carburizing

D) Tempering

Answer: C) Carburizing

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

A) Force fit

B) Clearance fit

C) Interference fit

D) Transition fit

Answer: D) Transition fit

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

A) Retainer

B) Holder

C) Vehicle

D) Absorber

Answer: C) Vehicle

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

A) Boron carbide

B) Natural corundum

C) Silicon carbide

D) Aluminium oxide

Answer: D) Aluminium oxide

38. 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

Answer: D) Size of hole is constant

39. What is direction of finishing in surface texture?

A) Waviness

B) Flaw

C) Lay

D) Roughness

Answer: C) Lay

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

A) Kerosene

B) Ammonia

C) Petrol

D) Charcoal

Answer: D) Charcoal

41. 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) Only external taper can be turned

D) Power feed can be given

Answer: C) Only external taper can be turned

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

A) Gas nitriding

B) Cyaniding

C) Induction hardening

D) Carburizing

Answer: A) Gas nitriding

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

A) Nitriding

B) Case hardening

C) Flame hardening

D) Induction hardening

Answer: D) Induction hardening

44. What does AQL stands for?

A) Acceptance quality level

B) Aquired quality limit

C) Another quality limit

D) Acceptance quality limit

Answer: D) Acceptance quality limit