

ITI Quiz - 17-Apr-2026

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Q. ID: ITISKILL1949KZ

April 2026

Govt ITI MULABAGAL

Question Paper

Duration: 30 Mins

Total Marks: 44

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Student Name: _____ Roll No: _____

1. How many fundamental deviations are recommended by BIS?

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

2. Which deviation is zero in hole basis system?

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

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

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

4. What does AQL stand for?

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

5. What is the expression of fit 30H7/g6?

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

6. What is the hole basis system?

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

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

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

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

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

9. What is the representation of IT in limits and fits?

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

10. Where are the taper threads used?

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

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

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

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

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

13. What is the purpose of normalizing steel?

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

14. Which gas is used in nitriding process?

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

15. 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

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

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

17. What is the preheating temperature of steel?

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

18. In which case hardening process is ammonia gas introduced?

- A) Gas nitriding
- B) Induction hardening

C) Cyaniding

D) Carburizing

19. 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

20. Which letter represents basic hole?

A) h

B) BH

C) H

D) Bh

21. What is direction of finishing in surface texture?

A) Lay

B) Waviness

C) Flaw

D) Roughness

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

A) Annealing

B) Case hardening

C) Normalizing

D) Tempering

23. Which deviation is zero in shft basis system?

A) Both upper and lower deviation is below basic size

B) Both upper and lower deviation is zero

C) Lower deviation is zero

D) Upper deviation is zero

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

A) Holder

B) Retainer

C) Absorber

D) Vehicle

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

A) Basic size

B) Nominal size

C) Actual size

D) Tolerance size

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

A) Nitriding

B) Hardening

C) Carburizing

D) Tempering

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

A) Roughness

B) Surface texture

C) Roughness facing

D) Waviness

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

A) Interference

B) Transition

C) Clearance

D) Running

29. Which surface is finished by honing?

A) Internal cylindrical surface

B) Both external and internal surface

C) External cylindrical surface

D) Flat surface

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

A) Flame hardening

B) Induction hardening

C) Case hardening

D) Nitriding

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

A) Mill micron

B) Centimeter

C) Millimeter

D) Micron

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

A) Diamond

B) High speed steel

C) High carbon steel

D) Mild steel

33. What does QA and QC stand for?

A) Quality adjustment and quality complete

B) Quality assurance and quenching control

C) Quality assurance and quenching control

D) Quality assurance and quality control

34. 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

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

A) Silicon carbide

B) Boron carbide

C) Aluminium oxide

D) Natural corundum

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

A) Hardness

B) Toughness

C) Ductility

D) Surface hardness

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

A) Transition fit

B) Running fit

C) Clearance fit

D) Interference fit

38. Why heat treatment of metal is necessary?

A) To increase strength of the metal

B) To produce certain desired properties

- C) To make the metal rust-proof D) To make good appearance on the component

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

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

40. What heat treatment process the nitriding comes under?

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

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

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

42. Which one of the advantage of mass production?

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

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) External taper thread can be produce D) Only external taper can be turned

44. 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