

# ITI Quiz - 07-Feb-2026 01:25 PM

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Trinity iti Udupi

Question Paper

Student: Akshay

Score: 45/51 (88.24%)

Code: 2581

1. Which hand tool used for circular cut in sheet metal work?

- A) Straight snip                      **B) Bend snip (Correct)**  
C) Combination plier                D) Side cutting plier

2. Which spanner used for zero setting in outside micrometer?

- A) Hooks spanner (Correct)** B) Ring spanner  
C) Double end spanner            D) Adjustable spanner

3. Which gauge is used to check the inflation of tyre?

- A) Wire gauge                        B) Feeler gauge  
C) Vacuum gauge                    **D) Pressure gauge (Correct)**

4. What is the smallest reading of vernier caliper?

- A) Deviation                        B) Tolerance  
**C) Least count (Correct)**        D) Allowance

5. Which one is the indirect measuring instrument?

- A) Steel rule                         **B) Inside caliper (Correct)**  
C) Inside micrometer               D) Outside micrometer

6. What is the name of beveled graduated sleeve of outside micro meter?

- A) Anvil                                B) Barrel  
C) Spindle                             **D) Thimble (Correct)**

7. Which plier used for bending narrow strips of thin metal sheet?

- A) Flat nose plier**                    B) Round nose plier (Incorrect)  
C) Slip joint plier                    D) Internal circlip plier

8. Which type of socket spanner can be turned to an angle?

- A) Socket spanner                    B) Deep socket spanner  
C) Spark plug socket spanner      **D) Swivel socket spanner (Correct)**

9. Which tool used to tighten the nuts and bolts at recommended tightness?

- A) Stud wrench                      B) Pipe wrench  
**C) Torque wrench (Correct)**      D) Adjustable wrench

10. What is the use of ball pein hammer head?

- A) Strike soft metal                B) Strike the metal  
C) Stamp the specifications       **D) Spread the metal In all direction (Correct)**

11. How the hammers are specified?

- A) Weight and shape (Correct)**      B) Size and shape  
C) Metal and shape                D) Metal and weight

12. Which type of chisel used to remove excess metal from welded joint?

- A) Cross cut chisel                B) Half round chisel  
**C) Flat chisel (Correct)**            D) Diamond point chisel

13. Which instrument is used to check the right angle?

- A) Steel rule                         **B) Try square (Correct)**  
C) Firm joint caliper                D) Spring Joint caliper

14. What is the purpose of half round chisel?

- A) Cut excess metal                **B) Cut curved grooves (Correct)**  
C) Squaring metal at corners      D) Cut keyways

15. Which screw driver is used in blind space?

- A) Ratchet screw driver            **B) Offset screw driver (Correct)**  
C) Philips screw driver            D) Stumpy screw driver

16. What is the purpose of the cross pein in the hammer?

- A) Fix the handle                    B) Strike the metal  
C) Strike the metal in all direction **D) Spread the metal in one direction (Correct)**

17. Which refers the size of hexagonal Allen key?

- A) Size of the radius                B) Size of the diagonal  
C) Size of the diameter            **D) Size across the flat (Correct)**

18. What is the working principle of dial test indicator?

- A) Leverage motion (Incorrect)      B) Spring motion

C) Linear motion into reciprocating motion

**D) Linear motion into rotary motion**

C) Charle's law

D) Newton's law

19. Which instrument is used to check the run-out of crankshaft journals?

A) Telescopic gauge

**B) Dial test indicator (Correct)**

C) Bore dial gauge

D) Vernier gauge

20. Which instrument used to check the piston ring end gap?

**A) Feeler gauge (Correct)**

B) Vernier gauge

C) Pitch gauge

D) Telescopic gauge

21. What are the two instruments used to measure the warp of the fly wheel?

A) Knife, wooden blank

B) Steel rule, metal shim

C) Wooden plank, metal shim

**D) Straight edge, feeler gauge (Correct)**

22. What is the use of ratchet stop in outside micrometer?

A) Prevent load

B) Prevent speed

**C) Prevent excessive pressure (Correct)**

D) Prevent sliding

23. What is the distance covered by the spindle in one full rotation of thimble in outside micrometer?

A) 2 mm

B) 1.5 mm

C) 1.0 mm

**D) 0.5 mm (Correct)**

24. Which measuring gauge needs to be set up to a fixed dimension before use?

A) Depth gauge

B) Dial test indicator

**C) Dial bore gauge (Correct)**

D) Vernier dial gauge

25. Which gauge used to check leakage of inlet manifold?

A) Feeler gauge

**B) Vacuum gauge (Correct)**

C) Pressure gauge

D) Emission gauge

26. Which measure the liquid's resistance of flow?

A) Gravity

B) Elasticity

C) Quality

**D) Viscosity (Correct)**

27. Which law is applied in hydraulic brake system?

A) Boyle's law

B) Charles law

**C) Pascal's law (Correct)**

D) Newton's law

28. Which law states that the pressure intensity of a static liquid equal in all direction?

A) Boyle's law

**B) Pascal's law (Correct)**

29. How many switching position in 4/2 directional control valve?

A) Four

**B) Two (Correct)**

C) One

D) Three

30. What is the function of hydraulic oil in hydraulic system?

**A) Transmit power (Correct)**

B) Increase the heat

C) Increase the volume

D) Reduce the pressure

31. What is the power flow of pneumatic system?

A) Compressor - Actuator - Control valve

B) Control valve - Compressor - Actuator

C) Actuator - Control valve - Compressor

**D) Compressor - Control valve - Actuator (Correct)**

32. Which type of pump used in the hydraulic jack?

A) Gear pump

**B) Plunger pump (Correct)**

C) Vane pump

D) Internal gear pump

33. Which device converts mechanical energy into pneumatic energy?

A) Actuator

B) Generator

C) Alternator

**D) Compressor (Correct)**

34. Which device converts hydraulic energy into mechanical energy?

**A) Actuator (Correct)**

B) Regulator

C) Compressor

D) Control Valve

35. Which valve safe guards the hydraulics jack?

**A) Relief valve**

B) Shut off valve

C) Non return valve 1 (Incorrect)

D) Non return valve 2

36. Which device transmit the pressure equally to all wheel cylinders in hydraulic brake?

A) Slave cylinder

B) Servo cylinder

**C) Master cylinder (Correct)**

D) Booster cylinder

37. Which component of air brake system converts pneumatic into mechanical energy?

A) Reservoir

B) Brake valve

C) Compressor

**D) Brake chamber (Correct)**

38. Which service unit act as filter, regulator and lubricator in the pneumatic system?

- A) Air service unit (Correct)** B) Compressor unit  
C) Valve unit D) Actuator unit

39. Which part operates the brake shoe in the hydraulic brake system?

- A) Break drum B) Break pedal  
**C) Wheel cylinder (Correct)** D) Master cylinder

40. Which is the power source of pneumatic system?

- A) Actuator B) Control valve  
**C) Air Compressor (Correct)** D) Air Service unit

41. What is the working media in pneumatic system?

- A) Air (Correct)** B) Oil  
C) Diesel D) Stream

42. Which act as a seal in the external gear pump?

- A) Housing B) Drive gear  
C) Driven gear **D) Gear meshing (Correct)**

43. Which valve regulate the flow rate in hydraulic system?

- A) By pass (Incorrect) **B) Delivery**  
C) Non return D) Pressure relief

44. Which part in the internal gear pump act as seal?

- A) Gears B) Gasket  
C) Sealing ring **D) Crescent-shaped spacer (Correct)**

45. What is the direction of driven gear in an external gear pump?

- A) Same direction B) Inclined direction

- C) Opposite direction (Correct)**

D) Perpendicular direction

46. Which unit supplies a fine mist of oil in pneumatic system?

- A) Actuator B) Control valve  
**C) Air service unit (Correct)** D) Pressure relief valve

47. What is the type of inner drive gear used in the internal gear oil pump?

- A) Spur gear** B) Spiral gear  
C) Rotor gear (Incorrect) D) Helical gear

48. What is the reason for pneumatic brake failure?

- A) Less pedal play **B) More pedal play (Incorrect)**  
**C) Defective unloader valve** D) Defective front wheel slack adjuster

49. What is the effect if the unloader valve is in open position?

- A) Release the air to the brake valve B) Allow the air in to the air tank  
C) Maintain the required air pressure **D) Continuously allow the air to the atmosphere (Correct)**

50. Which valve is to be closed before lifting the load with hydraulic jack?

- A) Relief valve **B) Shut of valve (Correct)**  
C) Non return valve-1 D) Non return valve-2

51. Which valve save the pneumatic brake components against damage?

- A) Brake valve B) Check valve  
C) Relay valve **D) Unloader valve (Correct)**