ITI Quiz - 22-Sep-2026 01:24 PM

Q. ID: ITISKILL0178LZ

September 2026 | **Shital ketkale pvt iti college shirol** | Question Paper

Duration: 90 Mins | **Total Marks: 40** | **ID: ITISKILL0178LZ**

Student Name: _____ Roll No: _____

1. What is the primeter of scalene. Triangle having sides of 40mm, 20mm and 28mm?

A) 98 mm B) 78 mm
C) 68 mm D) 88 mm

2. Which alloy steel is using for making precious instrument?

A) Manganese steel B) Silicon steel
C) Invar steel D) Vanadium

3. What is the other name of low carbon steel?

A) High speed steel B) Mild steel
C) High alloy steel D) Low alloy steel

4. What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

A) 4 B) 10
C) 2.4 D) 5

5. What is the name of the property of an insulation that should brake down or puncture on application of high voltage?

A) Non absorption B) Di-electric strength
C) Specific resistance D) Mechanical strenth

6. Which cast iron cannot be welded?

A) Grey cast iron B) White cast iron
C) Nodular cast iron D) Malleable cast iron

7. Which property of metal has its power of returning to its original shape after the applied force is released?

A) Plasticity B) Elasticity
C) Malleability D) Tenacity

8. Which is the unit of current?

A) Volt B) Ohm
C) Watt D) Ampere

9. Which furnace is used to get pig iron from iron ore?

A) Blast furnace B) Cupola
C) Electric furnace D) Mild steel - Rever battery

10. Which is mineral insulator

A) Glass B) Quartz
C) Porcelain D) Mica

11. Which property of a metal possessed by it melts when heat is applied?

A) Conductivity B) Malleability
C) Fusibility D) Tenacity

12. Which property of a substance is opposing the flow of electric current?

A) Resistance B) EMF
C) Voltage D) Current

13. Which metal contains iron as a major content?

A) Ferrous metal B) Zinc
C) Bronze metal D) Brass metal

14. Which steel is used for making files and cold chisel?

A) High carbon steel B) Low carbon steel
C) Stainless steel D) Midium carbon steel

15. What is the carbon percentage in medium carbon steel?

A) 0.05% to 0.15% B) 0.15% to 0.25%
C) 0.25% to 0.5% D) 0.5% to 1.5%

16. Which alloy used in electric lamp as filament?

A) Cobalt B) Tungsten
C) Vanadium D) Silicon

17. What is the name of the metal which do not contain iron?

A) Insulating metals B) Non-ferrous metals
C) Ferrous metals D) Non-Insulating metals

18. What metals contained in brass alloy?

A) Copper and zinc B) Copper and aluminium
C) Copper and tin D) Copper and lead

19. Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?

A) Malleability B) Hardness
C) Ductility D) Toughness

20. Which metal is widely used for making casting of machinery parts?

A) Grey cast iron B) Wrought iron
C) White cast iron D) Malleable cast iron

21. Which one of the following properties is the mechanical properties of metal?

A) Ductility B) Fusibility
C) Corrosion D) Structure

22. What is the side of a square whose area is 625 mm²?

A) 20 mm B) 15 mm
C) 25 mm D) 30 mm

23. Which is brittle metal?

A) Alloy steel B) Mild steel
C) Cast iron D) Steel

24. What is the resistance?
 I = 11.5 Amps
 V = 380 Volts
 R = _____Ohms

A) 23 ohms B) 33 ohms
C) 13 ohms D) 43 ohms

25. What is the diagonal of a square plate whose side is 28 cm?

A) 39.39 cm B) 39.49 cm
C) 39.29 cm D) 39.59 cm

26. Which is same in series connection of resistors in a circuit?

A) Power B) Voltage
C) Current D) Resistance

27. What is the area of a square whose side is 18 cm?

A) 26 cm² B) 72 cm²
C) 36 cm² D) 324 cm²

28. What is the area of a circle of diameter 50 cm?

A) 1952.5 cm² B) 1942.5 cm²
C) 1932.5 cm² D) 1962.5 cm²

29. Which metal cannot be forged?

A) Alloy steel B) Mild steel
C) Steel D) Cast iron

30. What is the voltage?
 R = 250 Ohms
 I = 0.44 Amps
 V = _____Volts

A) 110 Volts B) 100 Volts
C) 108 Volts D) 105 Volts

31. What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

A) 1/17 ohms B) 17 ohms
C) 7 ohm D) 11 ohms

32. Which property of material enables to formation of permanent deformation without fracture?

A) Elasticity B) Brittleness
C) Ductility D) Plasticity

33. What is the area of an equilateral triangle of side 450 mm?

A) 856.82 cm² B) 886.82 cm²
C) 866.82 cm² D) 876.82 cm²

34. What is the flow of electrons in any conductor?

A) Voltage B) Resistance
C) Current D) Power

35. What is the area of a rectangle, whose length and breadth are 10cm and 8cm respectively?

A) 90 cm² B) 85 cm²
C) 80 cm² D) 75 cm²

36. Which is the unit of resistance?

A) Watt B) Volt
C) Ohm D) Ampere

37. What is the name of furnace to obtained cast iron?

A) Cupola B) Steel - Rever battery
C) Alloy metal - Electric furnace D) Mild steel - Blast furnace

38. What is the perimeter of a rectangle whose length and breadth are 20 cm and 18 cm?

A) 56 cm B) 86 mm
C) 66 cm D) 76 cm

39. Which is very good conductor?

A) Wrought iron B) Steel
C) Cast iron D) Copper

40. What is the area of a right angled triangle having a base 10 cm and height 5 cm?

A) 30 sq.cm
B) 35 sq.cm
C) 25 sq.cm
D) 20 sq.cm