

ITI Quiz - 08-Apr-2026

03:05 PM

Q. ID: ITISKILL2098EM

April 2026

Sri Mahalingeswara ITI

Question Paper

Duration: 30 Mins

Total Marks: 45

ID: ITISKILL2098EM

Student Name: _____ Roll No: _____

1. Convert 52% into fraction?

- A) (9/25) B) (13/25)
C) (11/25) D) (17/25)

2. What metals contained in brass alloy?

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

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

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

4. Which insulator is used in over head lines?

- A) Porcelain B) Rubber
C) Mica D) P.V.C

5. What is the carbon percentage in low carbon steel?

- A) 0.25% to 0.50% B) 0.50% to 1.50%
C) 0.15% to 0.25% D) 0.02% to 0.03%

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

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

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

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

8. What is the definition of ratio?

- A) Relation of two quantities of the different kind
B) Equality between two ratios
C) Relation of two quantities of the same kind
D) Inequality between two ratios

9. How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

- A) 22 days B) 20 days
C) 26 days D) 24 days

10. Which cast iron cannot be welded?

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

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

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

12. What is the square root of decimal number 550.37?

- A) 22.26 B) 22.46
C) 23.46 D) 21.26

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

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

14. A motor cycle tyre is sold for Rs 300/- what is the purchase price if 25% profit is added to it.

- A) Rs 240 B) Rs 200
C) Rs 220 D) Rs 260

15. What is the ore of aluminium?

- A) Bauxite B) Hematite
C) Lemonite D) Mallatite

16. What is the ratio of 4 kg to 800 grams?

- A) 08:04 B) 02:04
C) 05:01 D) 04:08

17. Which metal cannot be forged?

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

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

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

19. Which is brittle metal?

- A) Steel
- C) Alloy steel

- B) Mild steel
- D) Cast iron

- A) Porcelain
- C) Ebonite

- B) Bakelite
- D) PVC

20. Which alloy used in electric lamp as filament?

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

21. What is the length L₂, if total length (L) is 2.75 metre and L₁:L₂ = 2:3?

- A) 1.1 metre
- C) 1.25 metre
- B) 1.75 metre
- D) 1.65 metre

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

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

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

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

24. What will be the rpm of smaller gear if a 180 mm dia meshes with 60 mm dia gear and the bigger gear makes 60 rpm?

- A) 120 rpm
- C) 180 rpm
- B) 140 rpm
- D) 160 rpm

25. Which among the following is an insulator?

- A) Mica
- C) Aluminium
- B) Silver
- D) Copper

26. Which alloy steel is used to make permanent magnets?

- A) Silicon steel
- C) Manganese steel
- B) Cobalt steel
- D) Vanadium steel

27. Which one is non-metal?

- A) Brass
- C) Mercury
- B) Iron
- D) Graphite

28. What is the square root of 0.017?

- A) 0.000001
- C) 0.001
- B) 0.00001
- D) 0.13

29. Convert 0.456 decimal fraction into percentage?

- A) 45.6
- C) 0.456
- B) 0.000456
- D) 0.0456

30. Which insulating material is used for making switches?

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

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

32. What percentage of 80 is 20?

- A) 0.4
- C) 0.25
- B) 0.8
- D) 0.2

33. What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

- A) Cu 92%
- C) Cu 98%
- B) Cu 96%
- D) Cu 94%

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

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

35. Which property of a metal enables it by which it can be drawn out into wires under tension without rupture?

- A) Malleability
- C) Ductility
- B) Brittleness
- D) Hardness

36. What is the decimal fraction of conversion of 18.5%?

- A) 0.195
- C) 0.185
- B) 0.175
- D) 0.165

37. What is the carbon percentage in high carbon steel?

- A) 0.15% to 0.25%
- C) 0.50% to 1.50%
- B) 0.02% to 0.03%
- D) 0.25% to 0.50%

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

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

39. How much is 8% of 40 kg?

- A) 4.2 kg
- C) 2.2 kg
- B) 5.2 kg
- D) 3.2 kg

40. What is the x value for $x^2 + 62 = 126$?

- A) 10
- C) 8
- B) 6
- D) 4

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

- A) Ductility
- C) Plasticity

- B) Brittleness
- D) Elasticity

C) Butyl

D) Nitrite butadiene

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

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

43. Which rubber is used as insulator for power cables and control wires?

- A) Silicon
- B) Hypalone

44. Which metal contains iron as a major content?

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

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

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