

ITI Quiz - 08-Apr-2026

03:05 PM

Q. ID: ITISKILL2098EM

April 2026

Sri Mahalingeswara ITI

Answer Key

Duration: 30 Mins

Total Marks: 45

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1. Which insulator is used in over head lines?

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

Answer: C) Porcelain

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

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

Answer: A) 23.46

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

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

Answer: A) Plasticity

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

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

Answer: B) Di-electric strength

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

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

Answer: B) 0.185

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

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

Answer: A) 0.25% to 0.5%

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

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

Answer: C) Invar steel

8. Which is brittle metal?

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

Answer: C) Cast iron

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

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

Answer: C) Mild steel

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

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

Answer: C) 0.50% to 1.50%

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

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

Answer: B) Grey cast iron

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

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

Answer: D) Blast furnace

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

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

Answer: A) Elasticity

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

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

Answer: B) Hardness

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

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

Answer: D) Cobalt steel

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

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

Answer: A) Non-ferrous metals

17. Convert 52% into fraction?

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

Answer: C) (13/25)

18. What percentage of 80 is 20?

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

Answer: C) 0.25

19. What is the square root of 0.017?

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

Answer: A) 0.13

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

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

Answer: B) Ductility

21. Convert 0.456 decimal fraction into percentage?

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

Answer: C) 45.6

22. What is the definition of ratio?

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

Answer: D) Relation of two quantities of the same kind

23. Which among the following is an insulator?

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

Answer: C) Mica

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

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

Answer: B) 1.65 metre

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

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

Answer: A) 0.15% to 0.25%

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

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

Answer: C) 8

27. How much is 8% of 40 kg?

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

Answer: D) 3.2 kg

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

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

Answer: A) Ductility

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

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

Answer: A) Cu 94%

30. Which metal contains iron as a major content?

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

Answer: D) Ferrous metal

31. Which one is non-metal?

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

Answer: A) Graphite

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

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

Answer: C) High carbon steel

33. Which insulating material is used for making switches?

- A) Ebonite B) Porcelain
C) PVC D) Bakelite

Answer: D) Bakelite

34. 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) 160 rpm B) 140 rpm
C) 120 rpm D) 180 rpm

Answer: D) 180 rpm

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

- A) 04:08 B) 08:04

C) 05:01

D) 02:04

Answer: C) 05:01

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

A) 20 days

B) 24 days

C) 22 days

D) 26 days

Answer: B) 24 days

37. Which metal cannot be forged?

A) Mild steel

B) Cast iron

C) Alloy steel

D) Steel

Answer: B) Cast iron

38. 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 260

C) Rs 200

D) Rs 220

Answer: A) Rs 240

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

A) Steel - Rever battery

B) Alloy metal - Electric furnace

C) Mild steel - Blast furnace

D) Cupola

Answer: D) Cupola

40. Which cast iron cannot be welded?

A) Malleable cast iron

B) White cast iron

C) Grey cast iron

D) Nodular cast iron

Answer: B) White cast iron

41. What metals contained in brass alloy?

A) Copper and tin

B) Copper and aluminium

C) Copper and zinc

D) Copper and lead

Answer: C) Copper and zinc

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

A) Hypalone

B) Nitrite butadiene

C) Butyl

D) Silicon

Answer: D) Silicon

43. What is the ore of aluminium?

A) Mallatite

B) Hematite

C) Bauxite

D) Lemonite

Answer: C) Bauxite

44. Which alloy used in electric lamp as filament?

A) Vanadium

B) Cobalt

C) Tungsten

D) Silicon

Answer: C) Tungsten

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

A) Conductivity

B) Tenacity

C) Fusibility

D) Malleability

Answer: C) Fusibility