

3.Material Sceince

Q. ID: ITISKILL8160UU

May 2026

Govt ITI Beerihundi

Question Paper

Duration: 30 Mins

Total Marks: 30

ID: ITISKILL8160UU

Student Name: _____

Roll No: _____

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

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

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

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

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

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

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

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

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

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

6. Which cast iron cannot be welded?

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

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

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

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

- A) Hypalone B) Silicon
C) Nitrite butadiene D) Butyl

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

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

10. Which insulating material is used for making switches?

- A) Porcelain B) PVC

C) Bakelite

D) Ebonite

11. What is the ore of aluminium?

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

12. Which metal cannot be forged?

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

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

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

14. Which alloy used in electric lamp as filament?

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

15. Which is brittle metal?

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

16. Which metal contains iron as a major content?

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

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

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

18. Which one is non-metal?

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

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

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

20. What metals contained in brass alloy?

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

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

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

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

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

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

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

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

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

25. Which insulator is used in over head lines?

- A) P.V.C
- B) Mica

C) Rubber

D) Porcelain

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

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

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

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

28. 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) Mechanical strenth
- C) Non absorption
- D) Di-electric strength

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

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

30. Which among the following is an insulator?

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