

WORKSHOP CALCULATION AND SCIENCE-UNIT 3: MATERIAL SCIENCE

SEMESTER 1

- Which one is non-metal?
a) Mercury b) graphite c) brass d) iron
Ans: Graphite
- Which metal contains iron as a major content?
a) Brass metal b) bronze metal c) zinc d) ferrous metal
Ans: ferrous metal
- What is the name of the metal which do not contain iron?
a) ferrous metal b) non ferrous metal c) insulating metals d) non insulating metals
Ans: non ferrous metal
- which one of the following is the mechanical properties of metal
a) fusibility b) ductility c) corrosion d) structure
Ans: ductility
- which is brittle metal
a) cast iron b) steel c) mild steel d) alloy steel
Ans: cast iron
- Which mechanical property of a metal offers resistance to elastic deformation in a cutting tool?
a) Ductility b) malleability c) hardness d) toughness
Ans: hardness
- which property of metal is its ability to resist the effect of tensile forces? *
a) elasticity b) tenacity c) ductility d) brittleness
Ans: tenacity
- which property of metal has its power of returning to its original shape after the applied force is released? *
a) malleability b) tenacity c) elasticity d) plasticity
Ans: elasticity
- which property of a metal possessed by it melts when heat is applied? *
a) conductivity b) malleability c) fusibility d) tenacity
Ans: fusibility
- which alloy used in electric lamp as filament? *
a) cobalt b) vanadium c) tungsten d) silicon
Ans: tungsten
- what metals contained in brass alloy? *
a) copper and aluminium b) copper and lead c) copper and zinc d) copper and tin
Ans: copper and zinc
- which cast iron cannot be welded? *
a) grey cast iron b) white cast iron c) malleable cast iron d) nodular cast iron
Ans: white cast iron
- which metal cannot be forged? *
a) alloy steel b) mild steel c) steel d) cast iron
Ans: cast iron
- which metal is widely used for making casting machinery parts *
a) grey cast iron b) white cast iron c) malleable cast iron d) wrought iron
Ans: grey cast iron
- which furnace is used to get pig iron from iron ore? *
a) rever battery b) electric furnace c) blast furnace d) cupola
Ans: blast furnace
- what is the name of furnace to obtained cast iron? *
a) cupola b) blast furnace c) rever battery d) electric furnace
Ans: cupola

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17. what is the other name of low carbon steel? *

- a) low alloy steel b) high alloy steel c) high speed steel d) mild steel

Ans: mild steel

18. 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%

Ans: 0.25% to 0.5%

19. What is the carbon percentage in low carbon steel? *

- a) 0.02 to 0.03% b) 0.15 to 0.25% c) 0.25 to 0.50% d) 0.50 to 1.50%

Ans: 0.15 to 0.25%

20. What is the carbon percentage in high carbon steel? *

- a) 0.02 to 0.03% b) 0.15 to 0.25% c) 0.25 to 0.50% d) 0.50 to 1.50%

Ans: 0.50 to 1.50%

21. What is the ore of aluminium? *

- a) Hematite b) mallatite c) bauxite d) limonite

Ans: bauxite

22. 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

Ans: ductility

23. Which among the following is an insulator? *

- a) Copper b) aluminium c) silver d) mica

Ans: mica

24. which rubber is used as insulator for power cables and control wires? *

- a) butyl b) hypalone c) silicon d) nitrite butadiene

Ans: silicon

25. Which alloy steel is used to make permanent magnets? *

- a) silicon steel b) manganese steel c) vanadium steel d) cobalt steel

Ans: cobalt steel

26. which insulator is used in over head lines? *

- a) mica b) rubber c) PVC d) porcelain

Ans: porcelain

27. Which insulating material is used for making switches? *

- a) Porcelain b) PVC c) Bakelite d) ebonite

Ans: bakelite

28. What is the name of the property of an insulator that should brake down or puncture on application of high voltage? *

- a) di-electric strength b) specific resistance c) mechanical strength d) non absorption

Ans: di electric strength

29. Which alloy steel is using for making precious instrument? *

- a) silicon steel b) manganese steel c) invar steel d) vanadium

Ans: invar steel

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

- a) low carbon steel b) medium carbon steel c) high carbon steel d) stainless steel

Ans: high carbon steel