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Score: 9/40 (22.50%)

Code: 2712

1. Which is the unit of current?

A) Ampere

B) Volt (Incorrect)

C) Ohm

D) Watt

2. Which is the unit of resistance?

A) Ampere

B) Volt (Incorrect)

C) Ohm

D) Watt

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

A) Voltage

B) Current (Correct)

C) Resistance

D) Power

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

A) Current

B) Voltage (Incorrect)

C) Resistance

D) EMF

5. Which is very good conductor?

A) Copper

B) Cast iron (Incorrect)

C) Wrought iron

D) Steel

6. Which is mineral insulator

A) Glass (Incorrect)

B) Quartz

C) Mica

D) Porcelain

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

A) 11 ohms

B) 7 ohm

C) 17 ohms

D) 1/17 ohms (Incorrect)

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

A) 10

B) 2.4 (Correct)

C) 5

D) 4

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

A) Current (Correct)

B) Voltage

C) Resistance

D) Power

10. What is the resistance?

I = 11.5 Amps

V = 380 Volts

R = _____ Ohms

A) 13 ohms

B) 23 ohms (Incorrect)

C) 33 ohms

D) 43 ohms

11. What is the voltage?

R = 250 Ohms

I = 0.44 Amps

V = ____ Volts

A) 100 Volts

B) 105 Volts

C) 108 Volts (Incorrect)

D) 110 Volts

12. Which metal contains iron as a major content?

A) Brass metal

B) Bronze metal (Incorrect)

C) Zinc

D) Ferrous metal

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

A) Ferrous metals

B) Non-ferrous metals

C) Insulating metals (Incorrect)

D) Non-Insulating metals

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

A) Fusibility

B) Ductility (Correct)

C) Corrosion

D) Structure

15. Which is brittle metal?

A) Cast iron (Correct)

B) Steel

C) Mild steel

D) Alloy steel

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

A) Ductility (Incorrect)

B) Malleability

C) Hardness

D) Toughness

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

A) Elasticity (Incorrect)

B) Plasticity

C) Ductility

D) Brittleness

18. Which property of metal has its power of returning to its

original shape after the applied force is released?

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

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

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

20. Which alloy used in electric lamp as filament?

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

21. What metals contained in brass alloy?

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

22. Which cast iron cannot be welded?

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

23. Which metal cannot be forged?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- A) 26 cm²
C) 72 cm²
B) 36 cm²
D) 324 cm² (Correct)

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

- A) 39.29 cm
C) 39.49 cm
B) 39.39 cm
D) 39.59 cm (Correct)

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

- A) 15 mm
C) 25 mm
B) 20 mm (Incorrect)
D) 30 mm

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

- A) 56 cm
C) 76 cm
B) 66 cm (Incorrect)
D) 86 mm

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

- A) 75 cm² (Incorrect)
C) 85 cm²
B) **80 cm²**
D) 90 cm²

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

- A) 20 sq.cm
C) 30 sq.cm
B) **25 sq.cm**
D) 35 sq.cm (Incorrect)

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

- A) 68 mm (Incorrect)
B) 78 mm

C) 88 mm

D) 98 mm

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

A) 856.82 cm^2 B) 866.82 cm^2

C) **876.82**

cm^2 (Correct)

D) 886.82 cm^2

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

A) 1932.5 cm^2

B) 1942.5 cm^2
(Incorrect)

C) 1952.5 cm^2

D) **1962.5**
 cm^2