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Score: 14/66 (21.21%)

Code: 5247

1. Which machine converts mechanical energy into electrical energy?

- A) Battery
B) Generator
C) Heater (Incorrect)
 D) Iron box

2. Which is the unit of current?

- A) Ampere**
 C) Ohm
 B) Volt
D) Watt (Incorrect)

3. Which is the unit of resistance?

- A) Ampere
C) Ohm (Correct)
 B) Volt
 D) Watt

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

- A) Voltage
 C) Resistance
B) Current
D) Power (Incorrect)

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

- A) Current
C) Resistance
 B) Voltage
D) EMF (Incorrect)

6. Which is very good conductor?

- A) Copper (Correct)**
 C) Wrought iron
 B) Cast iron
 D) Steel

7. Which is mineral insulator

- A) Glass
C) Mica
 B) Quartz
D) Porcelain (Incorrect)

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

- A) 11 ohms (Incorrect)
C) 17 ohms
 B) 7 ohm
 D) 1/17 ohms

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

- A) 10
B) 2.4
 C) 5
D) 4 (Incorrect)

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

- A) Current**
 B) Voltage

- C) Resistance (Incorrect)
 D) Power

11. Which law states that at constant temperature the current passing through a closed circuit is directly proportional to the potential difference and inversely proportional to the resistance?

- A) Ohm's law**
 C) Newton's law
 B) Lenz's law
D) Hooke's law (Incorrect)

12. What is the resistance?

- $I = 11.5 \text{ Amps}$
 $V = 380 \text{ Volts}$
 $R = \text{_____ Ohms}$
A) 13 ohms (Incorrect)
C) 33 ohms
 B) 23 ohms
 D) 43 ohms

13. What is the current?

- $R = 50 \text{ Ohms}$
 220 Volts
 $I = \text{_____ Amps}$
A) 4.1 Amps (Incorrect)
 C) 4.3 Amps
 B) 4.2 Amps
D) 4.4 Amps

14. What is the voltage?

- $R = 250 \text{ Ohms}$
 $I = 0.44 \text{ Amps}$
 $V = \text{_____ Volts}$
 A) 100 Volts
 C) 108 Volts
 B) 105 Volts
D) 110 Volts (Correct)

15. Which statement is correct according to ohm's law?

- A) $I = 1/V$
C) $I = V/R$
 B) $I = R$ (Incorrect)
 D) $I = R/V$

16. What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

- A) 12 W**
 C) 3 W
 B) 10 W
D) 1.2 W (Incorrect)

17. How much watt second in 1 watt hour?

- A) 1000 watt sec
B) 2000 watt sec (Incorrect)
C) 3600 watt sec
D) 4000 watt sec

18. What is the power if an emf of one volt causes a current flow of 1 ampere?

- A) 1 watt
B) 1 kilowatt
C) 1 HP
D) 1 Kilowatt hour (Incorrect)

19. Which is equal to electric power?

- A) $R^2 I$ watts
B) $I^2 R$ watts
C) RI
D) IR^2 (Incorrect)

20. How much power does it consumes if an electric heater draws a current of 10 amps at 200 volts?

- A) 2000 watts
B) 2010 watts
C) 2020 watts (Incorrect)
D) 2030 watts

21. What is the resistance of an electric iron if the rating of electric iron is 220 V and 500 watts?

- A) 94.8 ohms
B) 95.8 ohms
C) 96.8 ohms
D) 97.8 ohms (Incorrect)

22. What is the voltage of the immersion heater?

$P = 500$ watts

$I = 2.27$ Amps

$V =$ _____ Volts

- A) 200.3 volts
B) 210.3 volts
C) 220.3 volts (Correct)
D) 230.3 volts

23. What is the unit of intensity of magnetic field?

- A) wb/m (Correct)
B) m/wb
C) Hertz
D) Coloumb

24. Which law states about electromagnetic induction?

- A) Ohm's law
B) Hooke's law
C) Lenz's law
D) Faraday's law (Correct)

25. What is the formal for induced emf?

- A) $B^2 L \sin \theta$ volts
B) $BL \sin \theta$ volts
C) $BLV \sin \theta$ volts
D) $B^2 V \sin \theta$ volts (Incorrect)

26. What does EMF stands for?

- A) Electronic Magnetic Force
B) Electro Motive Force
C) Electro Magnetic Force (Incorrect)
D) Electromated Force

27. Which is the example for statically induced emf?

- A) Generator
B) Motor
C) Transformer
D) Refrigerator (Incorrect)

28. Which is the example for dynamically induced Emf?

- A) Motor (Incorrect)
B) Generator
C) Car
D) Motor bike

29. Which is the unit electrical power?

- A) Volts
B) Ohms
C) Watts (Correct)
D) Ampere

30. What is the current Flow in the bulb?

$P = 550$ watts

$R = 22$ Ohms

$I =$ _____ Amps

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33. How much voltage will be required to illuminate a 40 watts fluorescent lamp draws a current of 0.10 amperes?

- A) 390 volts
B) 395 volts (Incorrect)
C) 400 volts
D) 405 volts

34. How many hours will take for a 100 watts bulb to consume 1 kwh energy?

$W = 1$ Kwh

$P = 100$ Watts

$t =$ _____ Hours

$t =$ _____ Hours

$t =$ _____ Hours

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$t =$ _____ Hours

35. What is termed as the quantity of matter contained in a body?

- A) Density
B) Volume
C) Mass
D) Specific gravity (Incorrect)

36. What is the force with which a body is attracted by the earth towards its centre?

- A) Mass
B) **Weight**
C) Volume
D) Density (Incorrect)

37. What is called mass per unit volume of a substances?

- A) Mass
B) Weight
C) Density
D) Volume (Incorrect)

38. What is called the ratio between the density of a substances density of water at 4 Degree Centigrade?

- A) Density
B) **Specific gravity**
C) Mass (Incorrect)
D) Weight

39. What is the density of aluminium?

- A) 2.7 g/cm³ (Correct)**
B) 3.7 g/cm³
C) 4.7 g/cm³
D) 5.7 g/cm³

40. What is the mass if the density of a body is 7.6 g/cm³ and its volume is 25 cm³?

- A) 190 grams (Correct)**
B) 200 grams
C) 210 grams
D) 220 grams

41. What is the specific gravity of the solid, if density of the solid is 19.5 g/cm³?

- A) 8
B) 18.5
C) 19 (Incorrect)
D) 19.5

42. What is the density (r) in g/cm³ of an iron cube, if it weighs (W) 4.8 kg and volume (V) is 640 cm³?

- A) 6.6 g/cm³
B) 6.9 g/cm³ (Incorrect)
C) 7.2 g/cm³
D) 7.5 g/cm³

43. What is the volume (V) of mercury in cm³, if mass (m) of mercury is 1 kg and density (r) is 13.6 g/cm³?

- A) 73.53 cm³ (Correct)**
B) 73.43 cm³
C) 73.33 cm³ (Incorrect)
D) 73.23 cm³

44. What is the mass in gram, if a force of 15 dyne acting on a mass m producing an acceleration of 2.5 cm/sec²?

- A) 9 grams
B) 8 grams

C) 7 grams

D) 6 grams (Correct)

45. What is the specific gravity of the metal, if the piece of metal weighs 150 grams in air and 125 grams in water?

- A) 6**
B) 10
C) 15
D) 25 (Incorrect)

46. What is the volume of mercury in cm³, if the mass (m) of mercury is 136 grams (g) and density (r) of mercury is 13.6 g/cm³?

- A) 136 cm³
B) 13.6 cm³
C) 10.6 cm³ (Incorrect)
D) 10.0 cm³

47. What is the block weighs (W) in kg, if volume (V) is 320 cm³ and density 8.9 g/cm³?

- A) 2.948 kg
B) **2.848 kg**
C) 2.648 kg (Incorrect)
D) 2.448

48. What is the specific gravity of the metal, if it weighs 6.5 kgf in air and 3.5 kgf in water?

- A) 6.166
B) 3.166
C) 2.166
D) 1.166 (Incorrect)

49. What is the weight force of a car has a mass of 800 kg? (Take g = 9.81 m/sec²)

- A) 7848 Newton**
B) 7748 Newton (Incorrect)
C) 7847 Newton
D) 7487 Newton

50. Which one is non-metal?

- A) Mercury
B) **Graphite**
C) Brass
D) Iron (Incorrect)

51. Which metal contains iron as a major content?

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

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

- A) Ferrous metals
B) **Non-ferrous metals**
C) Insulating metals
D) Non-Insulating metals (Incorrect)

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

- A) Fusibility
B) **Ductility (Correct)**
C) Corrosion
D) Structure

54. Which is brittle metal?

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

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

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

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

- A) Elasticity (Incorrect)
B) **Plasticity**
C) Ductility
D) Brittleness

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

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

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

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

59. Which alloy used in electric lamp as filament?

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

60. What metals contained in brass alloy?

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

61. Which cast iron cannot be welded?

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

62. Which metal cannot be forged?

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

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

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

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

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

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

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

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

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