



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 (Correct)  
C) RI  
D) IRA

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  
D) 2030 watts (Incorrect)

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 (Correct)  
D) 97.8 ohms

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 (Incorrect)  
C) 220.3 volts  
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 (Incorrect)  
C) Lenz's law  
D) Faraday's law

25. What is the formula for induced emf?

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

26. What does EMF stands for?

- A) Electronic Magnetic Force (Incorrect)  
B) Electro Motive Force

- C) Electro Magnetic Force  
D) Electromated Force

27. Which is the example for statically induced emf?

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

28. Which is the example for dynamically induced Emf?

- A) Motor  
B) Generator  
C) Car (Incorrect)  
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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- A) 2 Amps (Incorrect)  
B) 3 Amps  
C) 4 Amps  
D) 5 Amps

31. What is the power required?

$I = 0.455$  Amps

$R = 484$  Ohms

$P =$  \_\_\_\_ Watts

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- A) 98.2 watts  
B) 99.2 watts  
C) 100.2 watts (Correct)  
D) 101.2 watts

32. What is the rated power if an adjustable resistor bears the following label 1.5 k ohms/ 0.08A?

- A) 9.2 watts  
B) 9.4 watts (Incorrect)  
C) 9.6 watts  
D) 9.8 watts

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  
C) 400 volts  
D) 405 volts (Incorrect)

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

$W = 1$  Kwh

$P = 100$  Watts

$t =$  \_\_\_\_ Hours

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**A) 10 hours**

B) 12 hours (Incorrect)

C) 18 hours

D) 24 hours

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

A) Density

B) Volume (Incorrect)

**C) Mass**

D) Specific gravity

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

A) Mass

**B) Weight**

C) Volume (Incorrect)

D) Density

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

A) Mass

B) Weight (Incorrect)

**C) Density**

D) Volume

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

A) Density

**B) Specific gravity (Correct)**

C) Mass

D) Weight

39. What is the density of aluminium?

**A) 2.7 g/cm<sup>3</sup>**

B) 3.7 g/cm<sup>3</sup> (Incorrect)

C) 4.7 g/cm<sup>3</sup> (Incorrect)

D) 5.7 g/cm<sup>3</sup>

40. What is the mass if the density of a body is 7.6 g/cm<sup>3</sup> and its volume is 25 cm<sup>3</sup>?

**A) 190 grams**

B) 200 grams (Incorrect)

C) 210 grams

D) 220 grams

41. What is the specific gravity of the solid, if density of the solid is 19.5 g/cm<sup>3</sup>?

A) 8

B) 18.5

C) 19

**D) 19.5 (Correct)**

42. What is the density (r) in g/cm<sup>3</sup> of an iron cube, if it weighs (W) 4.8 kg and volume (V) is 640 cm<sup>3</sup>?

A) 6.6 g/cm<sup>3</sup> (Incorrect)

B) 6.9 g/cm<sup>3</sup>

C) 7.2 g/cm<sup>3</sup>

**D) 7.5 g/cm<sup>3</sup>**

43. What is the volume (V) of mercury in cm<sup>3</sup>, if mass (m) of mercury is 1 kg and density (r) is 13.6 g/cm<sup>3</sup>?

**A) 73.53 cm<sup>3</sup> (Correct)**

B) 73.43 cm<sup>3</sup> (Incorrect)

C) 73.33 cm<sup>3</sup>

D) 73.23 cm<sup>3</sup>

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/sec<sup>2</sup>?

A) 9 grams (Incorrect)

B) 8 grams

C) 7 grams

**D) 6 grams**

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 (Incorrect)

D) 25

46. What is the volume of mercury in cm<sup>3</sup>, if the mass (m) of mercury is 136 grams (g) and density (r) of mercury is 13.6 g/cm<sup>3</sup>?

A) 136 cm<sup>3</sup>

B) 13.6 cm<sup>3</sup> (Incorrect)

C) 10.6 cm<sup>3</sup>

**D) 10.0 cm<sup>3</sup>**

47. What is the block weighs (W) in kg, if volume (V) is 320 cm<sup>3</sup> and density 8.9 g/cm<sup>3</sup>?

A) 2.948 kg

**B) 2.848 kg**

C) 2.648 kg

D) 2.448 (Incorrect)

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

A) 6.166

B) 3.166 (Incorrect)

**C) 2.166**

D) 1.166

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

**A) 7848 Newton**

B) 7748 Newton

C) 7847 Newton (Incorrect)

D) 7487 Newton

50. Which one is non-metal?

A) Mercury (Incorrect)

**B) Graphite**

C) Brass

D) Iron

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 (Incorrect)

D) Non-Insulating metals

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

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

- A) Ductility  
**C) Hardness**
- B) Malleability (Incorrect)  
D) Toughness

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

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

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

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

59. Which alloy used in electric lamp as filament?

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

60. What metals contained in brass alloy?

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

61. Which cast iron cannot be welded?

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

62. Which metal cannot be forged?

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

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

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

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

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

65. 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)

66. 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**