General Physics

1). The Element of an electric heater is made of ____

   a) Nichrome
   b) Copper
   c) Aluminum
   d) None of these

**Answer is: a)**

2). When water is heated from 0° Celsius to 100° Celsius, the volume of water

   a) Increase gradually
   b) Decrease gradually
   c) First increase, then decrease
   d) First decrease, then increase

**Answer is: d)**

3). One mega watt hour (MWH) is equal to

   a) $3.6 \times 10^3$ joule
   b) $3.6 \times 10^4$ joule
   c) $3.6 \times 10^7$ joule
   d) $3.6 \times 10^9$ joule

**Answer is: d)**

4). At what temperature are the temperature on Celsius and Fahrenheit scales equal?

   a) 273° Celsius
   b) -273° Celsius
c) \(-40^\circ\) Celsius

d) \(40^\circ\) Celsius

**Answer is: c)**

5). The Period of revolution round the sun is maximum by which among the following planets?

a) Mercury

b) Venus

c) Earth

d) Mars

**Answer is: d)**

6). Einstein got the Nobel prize for?

a) Theory of Relativity

b) Photo-electric effect

c) Polarisation

d) Radio activity

**Answer is: b)**

7). Galvanometer can be converted into a voltmeter by using

a) Low resistance in series

b) High resistance in series

c) Low resistance in parallel

d) High resistance in parallel

**Answer is: b)**

8). Gas law was given by
a) Boyle
b) Ostwald
c) Arrhenius
d) Faraday

Answer is: a)

9). Kilowatt – hour is a unit of

a) Energy
b) Power
c) Electric charge
d) Current

Answer is: b)

10). The ozone layer protects us from

a) Ultra violet rays
b) Radio waves
c) Visual radiation
d) Infrared radiation

Answer is: a)

11). What will be the temperature of the maximum if 100 gm ice at 0°C is put in 100 gm water at 80°C? (Latent heat of ice = 80 cal / gm)

a) 35°C
b) 45°C
c) 60°C
d) 0°C

Answer is: d)
12). Fire in the diesel engine is produced by which of the following?

a) Compression  
b) Spark plug  
c) Friction  
d) Self starter

**Answer is: a)**

13). With an increase in pressure the melting point of wax will.

a) Decrease  
b) Increase  
c) First increase and then decrease  
d) Remain Unaffected

**Answer is: b)**

14). Which among the following is the best conductor of electricity?

a) Silver  
b) Copper  
c) Gold  
d) Lead

**Answer is: a)**

15). Which among the following order of decreasing wavelengths of electromagnetic waves is correct?

I. Radio waves  
II. Infrared rays  
III. Visible Light  
IV. X-Rays

a) II, I, IV, III  
b) I, III, II, IV  
c) I, II, III, IV
16). Ampere-hour is the unit of which among the following?
   a) Power
   b) Energy
   c) Intensity of current
   d) Amount of charge

Answer is: d)

17). Who discovered X-Rays?
   a) Madam Curie
   b) Einstein
   c) Roentgen
   d) J. J. Thomson

Answer is: c)

18). Which among the following are primary colors?
   a) Red, Green, Blue
   b) Blue, Yellow, Green
   c) Red, Magenta, Yellow
   d) Yellow, Violet, Blue

Answer is: a)

19). At what temperature will the density of water be maximum?
   a) 0° C
   b) 32° C
   c) -4° C
   d) 4° C
Answer is: d)

20). Persistence of vision is the principle behind?

   a) Camera
   b) spectroscope
   c) Cinema
   d) Periscope

Answer is: c)

21). Which metal is commonly used for making an electromagnet?

   a) Copper
   b) Iron
   c) Nickel
   d) Cobalt

Answer is: b)

22). Light from the laser is________.

   a) Monochromatic
   b) Composite
   c) Dispersed light
   d) Incoherent

Answer is: a)

23). Choke is used to________.

   a) Reduce the current in AC circuit
   b) Reduce the current in DC circuit
   c) Convert AC to DC
24). In a standing wave the distance between a node and adjacent antinode is_____.

a) $\frac{3\lambda}{2}$
b) $\frac{\lambda}{2}$
c) $\frac{\lambda}{4}$
d) $\frac{3\lambda}{4}$

**Answer is: c)**

25). A telescope and microscope differ in that_____.

a) Both are different instruments
b) Telescope's eyepiece with longer focal lengths than the objective
c) Telescope has objective of large focal length and eyepiece of smaller focal lengths
d) None of these

**Answer is: c)**

26). The weight of a body is_____.

a) The same everywhere on the surface of the earth
b) Maximum at the poles
c) Maximum at the equator
d) More on the hills than in the plains

**Answer is: b)**

27). At what temperature a body will not radiate any heat energy?

a) $0^\circ$ C
b) $273^\circ$ C
c) 100° C
d) -273° C

**Answer is: d)**

28). Electromagnetic spectrum consists of the following radiations:

I. X-rays

II. Gamma rays

III. Ultraviolet radiations

IV. Infrared radiations

Choose the correct order of code in the increasing order of their frequency:

a) I, III, II, IV
b) II, I, III, IV
c) IV, III, I, II
d) IV, II, III, I

**Answer is: c)**

29). Only one part of moon can be seen from earth because _____.

a) Only one part reflects light
b) It does not rotate
c) The period of rotation and revolution are equal
d) None of these

**Answer is: c)**

30). Parsec is a unit of _______.

a) Pressure
b) Astronomical distance
c) Time
d) Energy

**Answer is: b)**

31). In which among the following is alternating current not used?

   a) Refrigeration  
   b) Heat production  
   c) Electroplating  
   d) Radio detection

**Answer is: c)**

32). Blisters are formed more rapidly by the steam of boiling water in comparison to boiling water itself because________.

   a) Temperature of the stream is higher  
   b) Stream enters the body pores rapidly  
   c) Stream is a gas and rapidly covers the body  
   d) Stream has latent heat

**Answer is: d)**

33). An ice cube is floating on the surface of water: How will the water level be affected by melting of this ice cube?

   a) Water level will be raised  
   b) Water level will go down  
   c) Water level will remain the same  
   d) Water level will first rise up then it will go down

**Answer is: c)**

34). What will be the effect on gravitational acceleration if the earth suddenly stops its rotation?
a) It will reduce at the poles  
  b) It will increase at the poles  
  c) It will decrease at the equator  
  d) It will increase at the equator  

Answer is: b)

35). Ohmic conductor among the following is_____.
  
  a) Transistor  
  b) Thermal value  
  c) Electrolyte  
  d) Constantum  

Answer is: d)

36). One Kilo Calorie heat will be equal to_____.
  
  a) 4.2 joule  
  b) 4.2 x 10^2 Joule  
  c) 4.2 x 10^3 Joule  
  d) 4.2 x 10^4 Joule  

Answer is: c)

37). Ball pen works on the principle of_____.
  
  a) Viscosity  
  b) Boyle’s Law  
  c) Gravitational force  
  d) Capillarity and surface tension  

Answer is: d)

38). The apparatus used in submarines to give clear view of the objects on the surface of the ocean or ground is known as_______.  

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a) Periscope
b) sectant
c) stereoscope
d) telescope

**Answer is: a)**

39). Growth of the baby in the uterus is found using_____.

   a) X-rays
   b) Gamma rays
   c) Ultra sound
   d) Ultra Violet rays

**Answer is: c)**

40). The form of matter are______.

   a) 3
   b) 4
   c) 5
   d) 7

**Answer is: a)**

41). The centre of the Newton’s rings pattern is dark since______.

   a) The light undergoes a phase change $\pi$
   b) The glass plate plano-convex lens
   c) The light undergoes a phase change $2\pi$
   d) The light undergoes a phase change $\pi/2$

**Answer is: a)**
42). If a red-green flag is seen in green light it appears to be of which of the following colour?

a) Green
b) Black
c) Black - Green
d) Red - Black

**Answer is: c)**

43). A moving electric charge produces________.

a) Only electric field
b) Only Magnetic field
c) Both electric and magnetic field
d) Either electric or a magnetic field

**Answer is: c)**

44). Which among the following order of decreasing wavelengths of electromagnetic waves are correct?

I. Radio waves
II. Infrared rays
III. Visible light
IV. X-rays

Choose the answer from the following code:

a) II, I, IV, III
b) I, III, II, IV
c) I, II, III, IV
d) IV, III, II, I
45). Which among the following is the surface to surface missile that is made in India?

a) Dharti  
b) Akash  
c) Prithivi  
d) Naag

Answer is: c)

46). Lightning conductors are made up of__________.

a) Iron  
b) Aluminium  
c) Copper  
d) Steel

Answer is: c)

47). The I.C Chip used in a computer is made up of______.

a) Silicon  
b) Chromium  
c) Gold  
d) Lead

Answer is: a)

48). Which planet is nearest to the earth?

a) Mercury  
b) Jupiter  
c) Venus  
d) Mars
49). Which among the following quantities is scalar?

a) Velocity  
b) Acceleration  
c) Work  
d) Force

**Answer is: a)**

50). Nichrome wire is used in an electric heater because__________.

a) It has high resistance  
b) It has high melting point  
c) It can resist a current upto approx 5 amperes  
d) For all of the above reasons

**Answer is: d)**