

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 0o Celsius to 100o Celsius, the volume of water

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

Answer is: d)

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

- a) 3.6×10^3 joule
- b) 3.6×10^4 joule
- c) 3.6×10^7 joule
- d) 3.6×10^9 joule

Answer is:d)

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

- a) 273o Celsius
- b) - 273o Celsius c) – 40o Celsius
- d) 40o 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 d) IV, III, II, I

Answer is: c)

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) 0o C

b) 32o C

c) - 4o C

d) 4o 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 d) Convert DC to AC

Answer is: a)

24).In a standing wave the distance between a node and adjacent antinode is .

- a) $3\lambda / 2$
- b) $\lambda / 2$
- c) $\lambda / 4$
- d) $3\lambda / 4$

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) 0o C
- b) 273o C c) 100o C
- d) -273o C

Answer is: d)

28).Electromagnetic spectrum consists of the following radiationsI.

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 steam is higher
- b) Steam enters the body pores rapidly
- c) Steam is a gas and rapidly covers the body
- d) Steam 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) 4.2×10^2 Joule

c) 4.2×10^3 Joule

d) 4.2×10^4 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 . a) Periscope

b) sextant

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

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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 π

b) The glass plate plano-convex lens

c) The light undergoes a phase change 2π

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

Answer is: c)

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

Answer is: d)

49). Which among the following quantities is scalar?

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

Answer is: c)

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)