

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) 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) 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)  $0^{\circ}\text{C}$
- b)  $273^{\circ}\text{C}$  c)  $100^{\circ}\text{C}$
- d)  $-273^{\circ}\text{C}$

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)