

# 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  $0^{\circ}\text{C}$  to  $100^{\circ}\text{C}$ , 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)  $273^{\circ}\text{C}$
- b)  $-273^{\circ}\text{C}$

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  $0^{\circ}\text{C}$  is put in 100 gm water at  $80^{\circ}\text{C}$ ? (Latent heat of ice = 80 cal / gm)

- a)  $35^{\circ}\text{C}$
- b)  $45^{\circ}\text{C}$
- c)  $60^{\circ}\text{C}$
- d)  $0^{\circ}\text{C}$

**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) 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

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 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 comparision 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

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**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)  $4.2 \times 10^2$  Joule
- c)  $4.2 \times 10^3$  Joule
- d)  $4.2 \times 10^4$  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) 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

**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: 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)**