

**CBSE Board
Class VI
Science Term II
Sample Paper - 3**

Physics

- Q1.** Which of the following statements is incorrect regarding the symbol used for a unit of a physical quantity?
(a) The symbol named after scientists should have capital letter.
(b) They take plural forms
(c) They can be written full
(d) They should be written only in agreed symbols.
- Sol.** (b)
They take plural forms
- Q2.** What kind of motion a bullet shows when fired from a gun?
(a) Linear motion
(b) Translatory motion
(c) Random motion
(d) Non-periodic motion
- Sol.** (b)
Translatory motion
- Q3.** To and fro movement of a body is termed as:
(a) Periodic motion
(b) Vibratory motion
(c) Oscillatory motion
(d) None of these
- Sol.** (c, a)
Oscillatory motion
- Q4.** In circular motion, the
(a) Direction of motion is fixed
(b) Direction of motion changes continuously
(c) Acceleration is zero
(d) Velocity is constant
- Sol.** (b) Direction of motion changes continuously
- Q5.** Consider the motion changes of the tip of the minute hand of a clock. In one hour
(a) The distance covered is zero
(b) The displacement is zero
(c) The average speed is zero
(d) None of these
- Sol.** (b) The displacement is zero

Q6. Which of the following explains why air is not visible?

- (a) It is nearly a perfect transparent substitute
- (b) It neither absorbs nor reflects light.
- (c) It transmits whole of light
- (d) All of these

Sol. (b)
It neither absorbs nor reflects light.

Q7. The shape of the shadow depends upon

- (a) Size of the object
- (b) Position of the source of light
- (c) Size of source of light
- (d) Shape of the object.

Sol. (d) Shape of the object

Q8. What happens when you increase the distance between the pinhole and the screen in a pinhole camera increases?

- (a) The size of the image changes
- (b) The brightness of the image changes
- (c) The image remains inverted
- (d) All of these

Sol. (d)
All of these

Q9. Ahmad looked up at the night sky and observed the things he could see. From the things he could see, he made a list of sources of light in the night sky. His list should include?

1. Moon 2. Stars 3. Clouds

- (a) 1 only
- (b) 3 only
- (c) 1 and 2
- (d) 2 and 3

Sol. (c, a)
2 and 3

Q10. If the sun is above your head, the shadow formed would be:

- (a) Shortest
- (b) Longest
- (c) Sometimes short, sometimes long
- (d) Absent

Sol. (a) Shortest

- Q11.** Rohan's torch does not light up. This is because
- (a) The positive terminal of one battery is not connected to the negative terminal of the next battery
 - (b) The metal tip of the bulb is not connected to one of the batteries
 - (c) The batteries are connected in parallel
 - (d) There is a gap between the batteries

Sol. (a) The positive terminal of one battery is not connected to the negative terminal of the next battery.

- Q12.** A thin coil of metal in a bulb, which glows when electricity is passed through it, is called:
- (a) Insulator
 - (b) Filament
 - (c) Bulb
 - (d) Switch

Sol. (b) Filament

- Q13.** Which of these allows conduction of electricity?
- (a) Wooden rod
 - (b) Stainless steel spoon
 - (c) Rubber sandal
 - (d) Plastic tumbler

Sol. (b)
Stainless steel spoon

- Q14.** What can be placed between the open ends of a circuit to light a bulb?
1. Needle 2. Iron nail 3. Copper coin 4. Wooden piece
- (a) 1 and 3
 - (b) 2 and 3
 - (c) 1, 2, and 3
 - (d) All of these

Sol. (c, a)
1, 2, and 3

- Q15.** "Do not handle electric wires with your bare hands. Wear rubber gloves", said Mr. Gupta. Which of the following statements is not true about what Mr. Gupta commented?
- (a) You will get electrocuted if handle live wires
 - (b) The rubber glove is a good insulator to protect us from electric shocks
 - (c) The rubber gloves control the electric current flow.
 - (d) Electricity cannot flow through rubber

Sol. (d) Electricity cannot flow through rubber

Q16. Which of the following is attracted by magnet?

- (a) Glass
- (b) Plastic
- (c) Gold
- (d) Iron

Sol. (d)
Iron

Q17. Soft iron pieces placed across the ends of bar magnets when stored, are called:

- (a) Compasses
- (b) Keepers
- (c) Preservers
- (d) Poles

Sol. (b)
Keepers

Q18. Magnet was first discovered about 5000 years ago in the rocks of:

- (a) Meghalaya
- (b) Manipur
- (c) Magnesia
- (d) Munich

Sol. (c, a)
Magnesia

Q19. Which of the following is not a magnetic substance?

- (a) Cobalt
- (b) Nickel
- (c) Iron
- (d) Silver

Sol. (d)
Silver

Q20. Magnetic strength of the magnet is:

- (a) Concentrated in the centre of magnet
- (b) Concentrated at one of the poles of the magnet
- (c) Concentrated at both the poles of the magnet
- (d) Distributed uniformly throughout magnet

Sol. (c, a) Concentrated at both the poles of the magnet

Chemistry

Q21. Which of the following does not conduct electricity:

- (a) Plastic rod
- (b) Copper rod
- (c) Iron bar
- (d) Wet wooden block

Sol. (a)
Plastic rod

Q22. If a substance can be beaten into thin sheet, it is called:

- (a) Ductile
- (b) Malleable
- (c) Brittle
- (d) None of these

Sol. (b)
Malleable

Q23. Perfume is a substance which is:

- (a) Volatile
- (b) Non-volatile
- (c) Malleable
- (d) None of these

Sol. (a)
Volatile

Q24. Which of the following is a combustible metal?

- (a) Nickel
- (b) Sodium
- (c) Steel
- (d) Copper

Sol. (b) Sodium

Q25. The state of matter which has a definite volume but no definite shape:

- (a) Solid
- (b) Liquid
- (c) Gas
- (d) Mixture of substances

Sol. (b)
Liquid

Q26. The separation of grains from husk is done by the process of:

- (a) Handpicking
- (b) Sieving
- (c) Winnowing
- (d) Threshing

Sol. (c, a) Winnowing

Q27. Salt is obtained from sea water mainly by the process of:

- (a) Decantation
- (b) Filtration
- (c) Evaporation
- (d) Condensation

Sol. (c, a)
Evaporation

Q28. A mixture contains 3 different substances X, Y and Z. They are of same size and colour. X particles are heavy and non-magnetic, Y particles are light and non-magnetic while Z particles are magnetic. Which of these methods can be used to separate these particles?

- (a) Handpicking followed by filtration
- (b) Winnowing followed by magnetic separation
- (c) Magnetic separation followed by sieving
- (d) Sublimation followed by magnetic separation

Sol. (b)
Winnowing followed by magnetic separation

Q29. Select an incorrect reason for separating components of a mixture.

- (a) To separate 2 or more different but useful components
- (b) To remove undesirable and useless components
- (c) To remove pure or harmless components
- (d) To obtain pure sample of substance

Sol. (c, a)
To remove pure or harmless components

Q30. Chalk powder suspension in water can be separated by:

- (a) Filtration
- (b) Evaporation
- (c) Condensation
- (d) Decantation

Sol. (a)
Filtration

- Q31.** In a chemical change:
(a) Molecules of the substance do not change
(b) Molecules of a substance change
(c) Change is reversible
(d) Substance remains same
- Sol.** (b)
Molecules of the substance change
- Q32.** A metallic piece (X) is dropped into copper sulphate solution. After sometime, the blue colour of the solution changes to green. The change which has occurred is
(a) Physical and reversible change
(b) Physical and irreversible change
(c) Chemical and reversible change
(d) Chemical and irreversible change
- Sol.** (d)
Chemical and irreversible change
- Q33.** Reema's mother has done some preparations for her birthday party. Which of the following changes can be reversed?
(a) Baking cake in an oven
(b) Burning of a candle
(c) Rolling a ball of dough and making it to make kulcha
(d) Blowing of balloon
- Sol.** (d)
Blowing of balloon
- Q34.** Which of the following items has definite volume and shape?
(a) Water vapour
(b) Milk
(c) Aluminium foil
(d) Oxygen
- Sol.** (c, a)
Aluminium foil
- Q35.** Which of the following is an example of chemical change?
(a) Melting of wax
(b) Burning of candle wick
(c) Heating of iron rod
(d) Woollen yarn to knitted sweater
- Sol.** (b)
Burning of a candle wick

- Q36.** The cycle which links clouds, rain, sea, surface water, and underground water is called
- (a) Water reservoir
 - (b) Water cycle
 - (c) Water circulation
 - (d) Transpiration

Sol. (b)
Water cycle

- Q37.** Water is a natural resource which is:
- (a) Exhaustible
 - (b) Exhaustible as well as inexhaustible
 - (c) Inexhaustible
 - (d) All the above

Sol. (c, a)
Inexhaustible

- Q38.** Of the total amount of water present on the earth, the water available for human use is about:
- (a) 10%
 - (b) 20%
 - (c) 1%
 - (d) 2%

Sol. (c, a)
1%

- Q39.** The purest form of water is:
- (a) Spring water
 - (b) Subsoil water
 - (c) Rainwater
 - (d) Hand pump water

Sol. (c, a)
Rainwater

- Q40.** An example of underground water is:
- (a) River
 - (b) Lake
 - (c) Sea
 - (d) Well

Sol. (d)
Well

Biology

Q41. Which of the following food items are sources of sucrose, starch and cellulose respectively?

- (a) Meat, fish and potatoes
- (b) Spinach, corn and meat
- (c) Table sugar, rice and grass
- (d) Fruits, eggs and wheat

Sol. (c, a)

Table sugar, rice and grass

Q42. Which of the following options contains foods obtained from roots of the plant?

- (a) Spinach, cabbage, coriander
- (b) Potato, mango, broccoli
- (c) Sugarcane, onion, beetroot
- (d) Radish, turnip, carrot

Sol. (d)

Radish, turnip, carrot.

Q43. Pulses are rich source of:

- (a) Fibre
- (b) Roughage
- (c) Minerals
- (d) Proteins

Sol. (d)

Proteins

Q44. Night blindness is caused by the deficiency of:

- (a) Vitamin C
- (b) Vitamin K
- (c) Vitamin D
- (d) Vitamin A

Sol. (d)

Vitamin A

Q45. Fats provide much more energy as the same amount of:

- (a) Proteins
- (b) Roughage
- (c) Vitamins
- (d) Carbohydrates

Sol. (c, a)

Vitamins

Q46. Cotton was first produced in:

- (a) Egypt
- (b) India
- (c) China
- (d) Europe

Sol. (b)
India

Q47. Which of the following options describes the advantage of synthetic fibres?

- (a) They are stronger and dry easily
- (b) They do not wrinkle
- (c) They are not attacked by moths and other insects
- (d) All of the above

Sol. (d)
All of the above

Q48. Sakshi wanted to test the quality of her dress. She pulled a small strand of yarn from the dress and burned it. It smelled like a burning paper. She inferred that the dress is made of pure_____

- (a) Wool
- (b) Cotton
- (c) Silk
- (d) None of these

Sol. (a)
Wool

Q49. Bast fibres are found in the stems of the plants and provide strength to the plants. They are generally very long. An example of bast fibres is_____

- (a) Flax
- (b) Hemp
- (c) Jute
- (d) All of these

Sol. (d)
All of these

Q50. Average life span of humans:

- (a) 40 to 60 years
- (b) 60 to 80 years
- (c) 50 to 70 years
- (d) 70 to 100 years

Sol. (d)
70 to 100 years

- Q51.** The leather, of which your shoes are made:
(a) Is non-living
(b) Is living
(c) Was once living but now non-living
(d) Was once non-living but now living
- Sol.** (c, a)
Was once living but now non-living
- Q52.** The male part of flower is:
(a) Ovary
(b) Sepal
(c) Stamen
(d) Pistil
- Sol.** (c, a)
Stamen
- Q53.** Amoeba is:
(a) Unicellular
(b) Bicellular
(c) Multicellular
(d) Acellular
- Sol.** (a)
Unicellular
- Q54.** Which of the following plants is a shrub:
(a) Coriander
(b) Mint
(c) Bougainvillea
(d) Radish
- Sol.** (a)
Coriander
- Q55.** Leaves of which of these plants show parallel venation?
(a) Banyan
(b) Neem
(c) Bamboo
(d) Eucalyptus
- Sol.** (c, a)
Bamboo

Q56. The joint formed by thigh bone and hip bone is an example of:

- (a) Fixed joint
- (b) Hinge joint
- (c) Ball and socket joint
- (d) Pivot joint

Sol. (c, a)
Ball and socket joint

Q57. What are produced in the bone marrow?

- (a) WBC
- (b) RBC
- (c) Platelets
- (d) All of these

Sol. (b)
RBC

Q58. Which of these have least number of movable joints?

- (a) Backbone
- (b) Skull
- (c) Legs and feet
- (d) Arms and hands

Sol. (b)
Skull

Q59. Which of these adaptations is not shown by a camel or living in desert?

- (a) Has a bump on its back
- (b) Passes scanty urine
- (c) Perspires a lot
- (d) The sole of the feet have sort of pads

Sol. (c, a)
Perspires a lot

Q60. Which of the following is non-biodegradable?

- (a) Cardboard
- (b) Cotton cloth
- (c) Leather shoes
- (d) Glass bottle

Sol. (d)
Glass bottle