

Class: VI
Subject: Science
Topic:
No. of Questions: 60
Duration: 60 Min
Maximum Marks: 60

Physics

Q.1 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.

Solution: b) They take plural forms

Q.2 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

Solution: b) Translatory motion

Q.3 To and fro movement of a body is termed as:

- a) Periodic motion
- b) Vibratory motion
- c) Oscillatory motion
- d) None of these

Solution: c) Oscillatory motion

Q.4 In circular motion, the

- a) Direction of motion is fixed
- b) Direction of motion changes continuously
- c) Acceleration is zero
- d) Velocity is constant

Solution: b) Direction of motion changes continuously

Q.5 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

Solution: b) The displacement is zero

Q.6 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

Solution: b) It neither absorbs nor reflects light.

Q.7 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.

Solution: d) Shape of the object

Q.8 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

Solution: d) All of these

Q.9 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

Solution: c) 2 and 3

Q.10 If the sun is above your head, the shadow formed would be:

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

Solution: a) Shortest

Q.11 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

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

Q.12 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

Solution: b) Filament

Q.13 Which of these allows conduction of electricity?

- a) Wooden rod
- b) Stainless steel spoon
- c) Rubber sandal
- d) Plastic tumbler

Solution: b) Stainless steel spoon

Q.14 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

Solution: c) 1, 2, and 3

Q.15 “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

Solution: d) Electricity cannot flow through rubber

Q.16 Which of the following is attracted by magnet?

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

Solution: d) Iron

Q.17 Soft iron pieces placed across the ends of bar magnets when stored, are called:

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

Solution: b) Keepers

Q.18 Magnet was first discovered about 5000 years ago in the rocks of:

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

Solution: c) Magnesia

Q.19 Which of the following is not a magnetic substance?

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

Solution: d) Silver

Q.20 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

Solution: c) Concentrated at both the poles of the magnet

Chemistry

Q.1 Which of the following does not conduct electricity:

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

Solution: a) Plastic rod

Q.2 If a substance can be beaten into thin sheet, it is called:

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

Solution: b) Malleable

Q.3 Perfume is a substance which is:

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

Solution: a) Volatile

Q.4 Which of the following is a combustible metal?

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

Solution: b) Sodium

Q.5 The state of matter which has a definite volume but no definite shape:

- a) Solid

- b) Liquid
- c) Gas
- d) Mixture of substances

Solution: b) Liquid

Q.6 The separation of grains from husk is done by the process of:

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

Solution: c) Winnowing

Q.7 Salt is obtained from sea water mainly by the process of:

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

Solution: c) Evaporation

Q.8 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

Solution: b) Winnowing followed by magnetic separation

Q.9 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

Solution: c) To remove pure or harmless components

Q.10 Chalk powder suspension in water can be separated by:

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

Solution: a) Filtration

Q.11 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

Solution: Molecules of the substance change

Q.12 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

Solution: d) Chemical and irreversible change

Q.13 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

Solution: d) Blowing of balloon

Q.14 Which of the following items has definite volume and shape?

- a) Water vapour
- b) Milk
- c) Aluminium foil
- d) Oxygen

Solution: c) Aluminium foil

Q.15 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

Solution: b) Burning of a candle wick

Q.16 The cycle which links clouds, rain, sea, surface water, underground water is called

- a) Water reservoir
- b) Water cycle
- c) Water circulation
- d) Transpiration

Solution: b) Water cycle

Q.17 Water is a natural resource which is:

- a) Exhaustible
- b) Exhaustible as well as inexhaustible
- c) Inexhaustible
- d) All the above

Solution: c) Inexhaustible

Q.18 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%

Solution: c) 1%

Q.19 The purest form of water is:

- a) Spring water
- b) Subsoil water
- c) Rainwater
- d) Hand pump water

Solution: c) Rainwater

Q.20 An example of underground water is:

- a) River
- b) Lake
- c) Sea
- d) Well

Solution: d) Well

Biology

Q.1 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

Solution: c) Table sugar, rice and grass

Q.2 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

Solution: d) Radish, turnip, carrot.

Q.3 Pulses are rich source of:

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

Solution: d) Proteins

Q.4 Night blindness is caused by the deficiency of:

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

Solution: d) Vitamin A

Q.5 Fats provide much more energy as the same amount of:

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

Solution: c) Vitamins

Q.6 Cotton was first produced in:

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

Solution: b) India

Q.7 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

Solution: d) All of the above

Q.8 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

Solution: a) Wool

Q.9 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

Solution: d) All of these

Q.10 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

Solution: d) 70 to 100 years

Q.11 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

Solution: c) Was once living but now non-living

Q.12 The male part of flower is:

- a) Ovary
- b) Sepal
- c) Stamen
- d) Pistil

Solution: c) Stamen

Q.13 Amoeba is:

- a) Unicellular
- b) Bicellular
- c) Multicellular
- d) Acellular

Solution: a) Unicellular

Q.14 Which of the following plants is a shrub:

- a) Coriander
- b) Mint
- c) Bougainvillea
- d) Radish

Solution: a) Coriander

Q.15 Leaves of which of these plants show parallel venation?

- a) Banyan
- b) Neem
- c) Bamboo
- d) Eucalyptus

Solution: c) Bamboo

Q.16 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

Solution: c) Ball and socket joint

Q.17 what are produced in the bone marrow?

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

Solution: b) RBC

Q.18 Which of these have least number of movable joints?

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

Solution: b) Skull

Q.19 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

Solution: c) Perspires a lot.

Q.20 Which of the following is non-biodegradable?

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

Solution: d) Glass bottle