

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

### Physics

Q.1 One centimetre on a scale is divided into 20 equal divisions. The least count of this scale is

- a) 20 cm
- b) 1 mm
- c) 0.1 mm
- d) 0.5 mm

Solution: d) 0.5 mm

Q.2 A cyclist moves from a certain point P and goes round a circle of radius  $a$  and reaches Q, exactly at the other side of the point P. The displacement of the cyclist would be

- a)  $\pi a$
- b)  $2\pi a$
- c)  $2a$
- d)  $2\pi/a$

Solution: c)  $2a$

Q.3 The motion of the arms of a soldier marching along the road is

- a) Circular
- b) Oscillatory
- c) Rotatory
- d) Non-periodic

Solution: b) oscillatory

Q.4 The smallest time measured by a wrist watch accurately is

- a) 1 millisecond
- b) 60 second
- c) 1 second
- d) 1 hour

Solution: c) 1 second

Q.5 Which of the following statements is false?

- a) The motion of a swing is rectilinear as well as circular
- b) A guitar shows vibratory motion
- c) Pendulum of a clock shows oscillatory motion
- d) A ceiling fan shows rotator motion.

Solution: a) The motion of a swing is rectilinear as well circular

Q.6 The image of an object formed in the water is

- a) Erect
- b) Diminished
- c) Inverted
- d) None of these

Solution: a) Erect

Q.7 When Abhishek looked at a lighted torch through an object he could see faint glow, but not the torch. The object is

- a) Transparent
- b) Opaque
- c) Translucent
- d) None of these

Solution: c) Translucent

Q.8 The essential condition for the formation of shadow is

- a) There should be an opaque material
- b) There should be a source of light
- c) The object must be placed in the path of light
- d) All of these

Solution: d) All of these

Q.9 In domestic wiring, the neutral wire has which of the following colours?

- a) Black
- b) White
- c) Green
- d) Red

Solution: a) Black

Q.10 In a circuit having one bulb, another bulb is added parallel, then the bulb will

- a) Not glow
- b) Glow but less brightly
- c) Glow more brightly
- d) Get fused

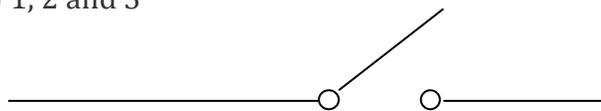
Solution: b) Glow but less brightly

Q.11 What can be placed between the open ends to light up the bulb?

- 1. Needle, 2. Iron nail, 3. Copper coin, 4. Wooden piece
- a) 1 and 2
- b) 2 and 3
- c) 1,2 and 3
- d) All of these

Solution: c) 1, 2 and 3

Q.12



What is the function of the component shown above?

- a) It is used to connect the bulb to the other components of the circuit.
- b) It provides energy for the bulb to glow.
- c) It controls the flow of current in a circuit.
- d) It measures the current in a circuit.

Solution: c) It controls the flow of current in a circuit.

Q.13 When two or more cells are joined together it forms a

- a) Dynamo
- b) Transistor
- c) Battery
- d) Insulator

Solution: c) Battery

Q.14 Which of these does not allow the electric current to pass through it?

- a) Bakelite rod
- b) Copper rod
- c) Brass rod
- d) Iron rod

Solution: a) Bakelite rod

Q.15 You should not store a floppy disk near a magnet because

- a) The magnet will rust.
- b) The magnet will become weaker.
- c) The information in the disk may be erased.
- d) The magnet will break the disk.

Solution: c) The information in the disk may be erased.

Q.16 How many poles are present in a magnet?

- a) One
- b) Two

- c) Three
- d) Four

Solution: b) Two

Q.17 Which of the following groups of items is needed to make an electromagnet?

- a) An iron nail, a battery and a copper wire.
- b) An iron nail, a battery and a light bulb
- c) An iron nail, copper wire and a light bulb.
- d) None of these

Solution: a) An iron nail, a battery and a copper wire.

Q.18 In which of the following a permanent magnet is not used?

- a) In magnetic door catches
- b) Loudspeaker
- c) In compasses
- d) None of these

Solution: d) None of these

Q.19 Consider the motion 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.20 In which of the following cases, the frictional force between the tyres of a car and the road increase?

- a) When road is wet
- b) When the speed of the car increases
- c) When the surface area of the tyres in contact with the road increases.



Solution: c) Sugar, water, sawdust

Q.4 Chalk powder suspension in water can be separated by

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

Solution: a) filtration

Q.5 Cream is separated from milk by

- a) Sieving
- b) Filtration
- c) Churning
- d) Sublimation

Solution: c) churning

Q.6 A potter shapes pots out of clay and then bakes them in furnace. Identify the irreversible change taking place in the process.

- a) Shaping the pots out of clay
- b) Baking the pots in furnace
- c) Both shaping and baking pots
- d) None of these

Solution: b) Baking the pots in furnace

Q.7 Which of the following is a permanent, chemical and irreversible change.

- a) Melting of ice
- b) Boiling of water
- c) Rusting
- d) Condensation

Solution: c) rusting

Q.8 What is common among the following phenomena?

1. Blinking of traffic light, 2. Rotating of blades of fan ,3. Swinging of pendulum clock

- a) All are chemical changes
- b) All are periodic changes
- c) All are undesirable changes
- d) All are irreversible changes

Solution: All are periodic changes

Q.9 Chemical changes are:

- a) Always reversible
- b) Always irreversible
- c) Mostly irreversible
- d) Mostly reversible

Solution: b) Always irreversible

Q.10 In a physical change:

- a) New substance is formed
- b) No new substance is formed
- c) All of the above
- d) None of the above

Solution: b) No new substance is formed

Q.11 The factor that affects states of water:

- a) Atmosphere
- b) Temperature
- c) Height
- d) Human beings

Solution: b) Temperature

Q.12 Water melts to form:

- a) Steam
- b) Water vapour
- c) Ice
- d) Liquid

Solution: a) steam

Q.13 Falling of water drops of clouds is known as:

- a) Fog formation
- b) Precipitation
- c) Condensation
- d) Vaporization

Solution: b) Precipitation

Q.14 Loss of water as vapour from leaves of plants is termed as:

- a) Evaporation
- b) Guttation
- c) Transpiration
- d) Bleeding

Solution: c) Transpiration

Q.15 Identify the incorrect statement:

- a) Water evaporates all the time
- b) Water evaporates only when heated
- c) Water vapours condense if cooled
- d) Water exists only in 3 states

Solution: Water evaporates only when heated.

Q.16 The nitrogen content in the air is:

- a) 78%
- b) 88%
- c) 68%
- d) 21%

Solution: 78%

Q.17 The active part of air is:

- a) Carbon dioxide
- b) Oxygen
- c) Carbon monoxide
- d) Rare gases

Solution: b) Oxygen

Q.18 Which is incorrect statement about oxygen?

- a) It is 21% part of the air.
- b) It helps in burning
- c) It burns when comes in contact with flame.
- d) It helps in respiration

Solution: c) It burns when comes in contact with flame.

Q.19 The presence of air around can be proved by:

- a) Seeing it
- b) Smelling it
- c) Its colour
- d) Feeling it when it moves

Solution: d) Feeling it when it moves

Q.20 Which of the following applies to nitrogen?

- a) It helps in respiration of living organisms
- b) It helps in photosynthesis

- c) It is 78% by volume in air
- d) It helps in burning

Solution: c) It is 78% by volume in air.

### Biology

Q.1 Sea food specially sea weeds are rich source of which of the following minerals?

- a) Calcium
- b) Phosphorus
- c) Iodine
- d) Iron

Solution: Iodine

Q.2 Select an incorrect match

Minerals	Deficiency disease
a) Iron	Anaemia
b) Calcium	Rickets
c) Iodine	Goitre
d) Phosphorus	Marasmus

Solution: d) Phosphorus – Marasmus

Q.3 Cinchona, isabgol, neem, rauwolfia are

- a) Oil yielding plants
- b) Medicinal plants
- c) Fibre yielding plants
- d) Food plants

Solution: b) Medicinal plants

Q.4 Fibres are separated from the seeds of cotton balls by the process of

- a) Winnowing

- b) Threading
- c) Ginning
- d) Spinning

Solution: c) Ginning

Q.5 Which of these plant fibres is obtained from seeds?

- a) Cotton
- b) Jute
- c) Flax
- d) Coir

Solution: a) Cotton

Q.6 The process of rearing silkworms for the production of silk is known as\_\_\_\_\_.

- a) Sericulture
- b) Siilviculture
- c) Horticulture
- d) All the above

Solution: a) Sericulture

Q.7 By looking at a plant in the garden, Rohan came to know that it has fibrous roots. What led Rohan to this conclusion?

- a) Arrangement of flowers on stem.
- b) Arrangement of branches on stem
- c) Type of fruits on the plants
- d) Type of venation in leaves

Solution: d) Type of venation in leaves

Q.8 Amoeba is:

- a) Unicellular
- b) Bicellular

- c) Multicellular
- d) Acellular

Solution: a) Unicellular

Q.9 What are structural and functional units of life?

- a) Muscles
- b) Bones
- c) Tissues
- d) Cells

Solution: d) Cells

Q.10 All animals are \_\_\_\_\_ in their mode of nutrition.

- a) Autotrophic
- b) Heterotrophic
- c) Saprotrophic
- d) None of these

Solution: Heterotrophic

Q.11 The most colourful part of a flower is

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

Solution: a) Petal

Q.12 Which part of the flower turns into fruit?

- a) Calyx
- b) Anther
- c) Stigma
- d) Ovary

Solution: d) Ovary

Q.13 Fixed joint is found in:

- a) Cranium
- b) Knee
- c) Fingers
- d) Elbow

Solution: Cranium

Q.14 The total number of bones in human skeleton are:

- a) 206
- b) 196
- c) 296
- d) 106

Solution: a) 206

Q.15 The backbone consists of:

- a) 13 vertebrae
- b) 23 vertebrae
- c) 33 vertebrae
- d) 43 vertebrae

Solution: c) 33 vertebrae

Q.16 Xerophytes are plants found in:

- a) Sea
- b) Ponds
- c) Marshes
- d) Deserts

Solution: d) Deserts

Q.17 Which of the following is a biotic component?

- a) Water
- b) Air
- c) Decomposer
- d) Soil

Solution: c) Decomposer

Q.18 Example of municipal solid waste is

- a) Paper
- b) Batteries
- c) Packaging material
- d) All of the above

Solution: d) All of the above

Q.19 Which of the following is biodegradable?

- a) Orange peel
- b) Aluminium foil
- c) Aluminium
- d) Plastic bottle

Solution: a) Orange peel

Q.20 Some animals hibernate to adapt for

- a) Escaping hot weather
- b) Escaping cold weather
- c) Escaping from enemies
- d) Preventing loss of water from the body

Solution: b) Escaping cold weather.

askITians