

**CBSE
Class VI
Science Term 1
Sample Paper - 3**

Physics

Q1. 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

Sol. (d)
0.5 mm

Q2. 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) πa
- (b) $2\pi a$
- (c) $2a$
- (d) $2\pi/a$

Sol. (c)
 $2a$

Q3. The motion of the arms of a soldier marching along the road is

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

Sol. (b)
Oscillatory

- Q4.** The smallest time measured by a wrist watch accurately is
- (a) 1 millisecond
 - (b) 60 second
 - (c) 1 second
 - (d) 1 hour

Sol. (c)
1 second

- Q5.** 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.

Sol. (a)
The motion of a swing is rectilinear as well circular

- Q6.** The image of an object formed in the water is
- (a) Erect
 - (b) Diminished
 - (c) Inverted
 - (d) None of these

Sol. (a) Erect

- Q7.** 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

Sol. (c)
Translucent

- Q8.** 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

Sol. (d)
All of these

Q9. In domestic wiring, the neutral wire has which of the following colours?

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

Sol. (a) Black

Q10. 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

Sol. (b)
Glow but less brightly

Q11. 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

Sol. (c)
1, 2 and 3



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.

Sol. (c)
It controls the flow of current in a circuit.

Q13. When two or more cells are joined together it forms a

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

Sol. (c)

Battery

Q14. 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

Sol. (a)

Bakelite rod

Q15. 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.

Sol. (c)

The information in the disk may be erased.

Q16. How many poles are present in a magnet?

- (a) One
- (b) Two
- (c) Three
- (d) Four

Sol. (b)

Two

Q17. 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

Sol. (a)

An iron nail, a battery and a copper wire.

Q18. 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

Sol. (d) None of these

Q19. 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

Sol. (b)
The displacement is zero.

Q20. 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.
- (d) When there are more passengers in the car.

Sol. (d)
When there are more passengers in the car.

Chemistry

Q21. A pure substance is one which

- (a) has a uniform texture throughout
- (b) has a fixed boiling point or melting point
- (c) is made up of only one type of particles
- (d) All of the above

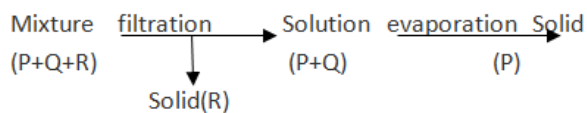
Sol. (d)
All of the above

Q22. Renu wants to recover large quantity of salt mixed with sand. She added water and stirred well but some salt remained undissolved. The undissolved salt remained mixed with the sand and could not be recovered. Her problem can be solved by

- (a) Adding large quantity of water
- (b) Heating the solution
- (c) Filtering the solution
- (d) Both a and b

Sol. (d)
Both a and b

Q23. Study the given flowchart carefully



What could be P, Q and R respectively?

- (a) Chalk powder, water, sawdust
- (b) Salt, water, sugar
- (c) Sugar, water, sawdust
- (d) Sawdust, water, sugar

Sol. (c)
Sugar, water, sawdust

Q24. Chalk powder suspension in water can be separated by

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

Sol. (a)
Filtration

Q25. Cream is separated from milk by

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

Sol. (c)
Churning

Q26. 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

Sol. (b)
Baking the pots in furnace

Q27. Which of the following is a permanent, chemical and irreversible change

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

Sol. (c)
Rusting

Q28. 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

Sol. (b)
All are periodic changes

Q29. Chemical changes are:

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

Sol. (b)
Always irreversible

Q30. 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

Sol. (b) No new substance is formed

Q31. The factor that affects states of water:

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

Sol. (b)

Temperature

Q32. Water melts to form:

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

Sol. (a)

Steam

Q33. Falling of water drops of clouds is known as:

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

Sol. (b)

Precipitation

Q34. Loss of water as vapour from leaves of plants is termed as:

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

Sol. (c)

Transpiration

Q35. 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

Sol.

- (b)
Water evaporates only when heated.

Q36. The nitrogen content in the air is:

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

Sol.

- (a)
78%

Q37. The active part of air is:

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

Sol.

- (b)
Oxygen

Q38. 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

Sol.

- (c)
It burns when comes in contact with flame.

Q39. The presence of air around can be proved by:

- (a) Seeing it
- (b) Smelling it
- (c) Its colour

(d) Feeling it when it moves

Sol. (d)

Feeling it when it moves

Q40. 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

Sol. (c)

It is 78% by volume in air.

Biology

Q41. Sea food specially sea weeds are rich source of which of the following minerals?

(a) Calcium

(b) Phosphorus

(c) Iodine

(d) Iron

Sol. (c)

Iodine

Q42. Select an incorrect match

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

Phosphorus – Marasmus

Q43. Cinchona, isabgol, neem, rauwolfia are

(a) Oil yielding plants

(b) Medicinal plants

(c) Fibre yielding plants

(d) Food plants

Sol. (b)

Medicinal plants

Q44. Fibres are separated from the seeds of cotton balls by the process of

- (a) Winnowing
- (b) Threading
- (c) Ginning
- (d) Spinning

Sol. (c)

Ginning

Q45. Which of these plant fibres is obtained from seeds?

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

Sol. (a)

Cotton

Q46. The process of rearing silkworms for the production of silk is known as _____.

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

Sol. (a)

Sericulture

Q47. 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

Sol. (d)

Type of venation in leaves

Q48. Amoeba is:

- (a) Unicellular
- (b) Bicellular
- (c) Multicellular

(d) Acellular
Sol. (a)
Unicellular

Q49. What are structural and functional units of life?
(a) Muscles
(b) Bones
(c) Tissues
(d) Cells

Sol. (d)
Cells

Q50. All animals are _____ in their mode of nutrition.
(a) Autotrophic
(b) Heterotrophic
(c) Saprotrophic
(d) None of these

Sol. (b)
Heterotrophic

Q51. The most colourful part of a flower is
(a) Petal
(b) Sepal
(c) Pistil
(d) Stamen

Sol. (a)
Petal

Q52. Which part of the flower turns into fruit?
(a) Calyx
(b) Anther
(c) Stigma
(d) Ovary

Sol. (d)
Ovary

Q53. Fixed joint is found in:

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

Sol.

- (a)
Cranium

Q54. The total number of bones in human skeleton are:

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

Sol.

- (a) 206

Q55. The backbone consists of:

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

Sol.

- (c)
33 vertebrae

Q56. Xerophytes are plants found in:

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

Sol.

- (d)
Deserts

Q57. Which of the following is a biotic component?

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

Sol.

- (c)
Decomposer

Q58. Example of municipal solid waste is

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

Sol. (d) All of the above

Q59. Which of the following is biodegradable?

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

Sol. (a)
Orange peel

Q60. 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

Sol. (b)
Escaping cold weather.