

Multiple choice questions

1. Choose the best alternative of the following questions and write in the answer sheet.

a. What is the careful inspection with sense organs called?

- i. Hypothesis
- ii. Curiosity
- iii. Survey
- iv. Observation

Correct answer: iv. Observation

Explanation:

Observation means careful inspection using our sense organs.

B. What kind of device is scanner?

- i. Input device
- ii. Output device
- iii. Input and Output device
- iv. None of the above

Correct answer: i. Input device

Explanation:

A scanner sends information (images/text) into the computer, so it is an input device.

C. Which is the first step of research work?

- i. Making inference or hypothesis
- ii. Goal Making
- iii. Conclusion
- iv. Choice of the data collection

Correct answer: ii. Goal making

Explanation:

Research starts by deciding the goal or objective of the study.

d.What is retardation?

- i. Decreasing Velocity
- ii. Increasing Velocity
- iii. Increasing acceleration
- iv. Decreasing acceleration

Correct answer: i. Decreasing velocity

Explanation:

Retardation is the decrease in velocity with time.

e. Which of the following elements has zero valency?

- i. Calcium
- ii. Neon
- iii. Hydrogen
- iv. Sodium

Correct answer: ii. Neon

Explanation:

Neon has a completely filled outer shell, so it does not react and has zero valency.

Which class lever is a nail cutter?

- i. First class lever
- ii. Second class lever
- iii. Third class lever
- iv. Continous lever

Correct answer: i. First class lever

Explanation:

In a nail cutter, the fulcrum lies between the effort and the load, so it is a first-class lever.

Group B

Very short answer Questions

1. What is the legal framework to fight against cybercrime and exploitation called?

Cyber law is called legal framework to fight against cybercrime and exploitation.

2. What is the final phase of research work?

Final phase of research work is Conclusion.

3. What is acid?

An acid is a substance that produces hydrogen ions (H^+) when dissolved in water.

4. Write any one method of removing temporary hardness of water?

One method of removing temporary hardness of water:

By boiling the water.

Group c

1. Write any two precautions while doing practical work in Science laboratory.

Any two precautions while doing practical work in Science laboratory:

Always wear a lab coat and safety goggles.

Do not taste or directly smell any chemical.

2. Why do comets lose their materials when revolving around sun many times?

Comets are made of ice and dust. When they come close to the Sun, **heat causes the ice to melt and evaporate**, so they gradually lose their materials.

3. What kind of elements are placed in first group of modern periodic table?

Highly reactive alkali metals are placed in the first group of the modern periodic table.

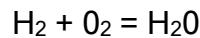
Group D

1. Express the given chemical equations into balanced chemical equations.
 - a. Hydrogen + Oxygen → Water
 - b. Sodium Hydroxide + Hydrochloric acid → Sodium Chloride + Water

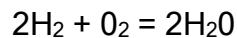
1. Balanced chemical equations

- a. Hydrogen + Oxygen → Water

Unbalanced equation:

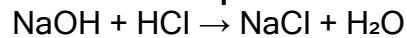


Balanced equation:

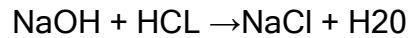


- b. Sodium Hydroxide + Hydrochloric acid → Sodium Chloride + Water

Unbalanced equation:



Balanced equation:

**2. Pramod took his facebook password the same as manoj. Is it cybercrime? Give reason. Write one advantage and disadvantage of social media.**

No, it is not a cybercrime because using the same password as another person is not a cybercrime unless someone illegally accesses or misuses another person's account without permission.

One advantage of social media:

Social media helps people communicate and share information easily.

One disadvantage of social media:

Social media can cause misuse of personal data and cybercrime.

