

Summative Assessment 1

Class 6 Basic Science — Answer Key
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Question 1

a **C. i, ii, iii** (Protein-rich foods like green gram, egg, and horse gram are essential for growth and body building).

b

- **A:** Starch
- **B:** Sugar

c

- **1. Rice / Potato:** Carbohydrate (Starch)
- **2. Green gram:** Protein
- **3. Ghee:** Fat
- **4. Orange:** Vitamin C

Question 2

a **Bulb**

b **Corrected statements:**

- **A:** Lodestone is a **permanent natural magnet**.
- **C:** Magnetic properties of permanent magnets **stay for a long time** (or *temporary magnets stay only for a short time*).

c **Methods of storing bar magnets:**

- Store bar magnets in pairs with unlike (opposite) poles facing each other.
- Place a piece of wood between the magnets.
- Place soft iron keepers across both ends of the magnets.

Question 3

a Bat

b Why animals need a skeleton:

- 1. Gives strength to the body
- 2. Gives shape and a structural framework to the body
- 3. Protects delicate internal organs (brain, heart, lungs) / Helps in movement and locomotion

c

- **Reason:** Birds have hollow bones containing air cavities (pneumatic bones), which makes them very light in weight.
- **Function:** A lighter skeleton reduces overall body weight, allowing birds to fly easily in the air.

Question 4

a C. Iron

b

- **Reason:** When an electric current passes through the copper wire, the iron nail acquires temporary magnetism via magnetic induction. When disconnected, current stops flowing and magnetism is immediately lost, causing the pins to drop.
- **Name of arrangement:** Electromagnet

c

- **Answer:** Picture A
- **Reason:** The magnetic strength is concentrated and strongest at the two poles (ends) of the magnet.

Question 5 (A)

a B. Statements ii and iv are correct

b Washing vegetables after cutting causes water-soluble vitamins (Vitamins B and C) and essential minerals to be washed away with the water.

c

- **A:** Carbohydrates
- **B:** Vitamins

--- OR ---

Question 5 (B)

a C. Both the Statement and the Reason are correct

b

- **i. (Vitamin A):** Carrot / Milk / Papaya / Fish liver oil
- **ii. (Vitamin C):** Amla / Lemon / Orange / Guava

c Excess cholesterol deposits on the inner walls of blood vessels (arteries), narrowing them and obstructing blood flow, which leads to high blood pressure and heart attacks.

Question 6 (A)

a Magnetic needle

b No, the nails will lose their magnetism. Iron nails are temporary magnetic substances; they show magnetism only while they are inside the magnetic field of another magnet.

c Four daily life uses:

- In electric motors and dynamos
- In loudspeakers and microphones
- In magnetic door catchers / refrigerator doors
- In magnetic cranes for lifting scrap iron

--- OR ---

Question 6 (B)

a D. Q will move away from P (*Like poles repel each other; South pole repels South pole*).

b

- **Correct statement: Child 2 is correct.** (*A broken magnet always forms two independent magnets with both North and South poles*).

• **Poles of Magnet B:**

- **i:** North Pole (N)
- **ii:** South Pole (S)

c Method of experiment:

- Hang a blade freely from the PVC pipe stand using a thread.
- Keep a measuring scale horizontally below or alongside the suspended blade.
- Bring the bar magnet slowly toward the blade along the scale and note the maximum distance at which the blade gets attracted to the magnet.