Marking Scheme & Teacher's Guide

Objective Answer Key & Rationale

1. **B** — *Wearing a clean face mask when sweeping dusty rooms.* Prevents dust and particulate allergens from entering respiratory airways.
2. **B** — *g.* Part g represents the sepals (calyx), which protect the flower while still enclosed in the bud stage.
3. **A** — *filament.* Part e represents the filament, the slender stalk that bears the anther in the male stamen.
4. **C** — *attract insect pollinators like bees and butterflies.* Petals are brightly colored and scented to attract pollinators.
5. **C** — *It feeds its young ones on milk produced by mammary glands.* The animal shown is a mammal (goat); mammals are warm-blooded and possess mammary glands.
6. **A** — *Living things reproduce.* Egg laying is the process of generating offspring to ensure species continuity.
7. **A** — *Filtration.* A liquid carrying insoluble solid particles (used tea leaves) is separated efficiently using a tea strainer (filter).
8. **A** — *Constructing well-covered pit latrines away from water sources.* Proper containment of human feces prevents fecal contamination of drinking water.
9. **D** — *provide essential mineral food nutrients for water plants.* Boiling is solely meant to sterilize water by killing pathogenic bacteria; it does not nourish plants.
10. **A** — *A homogeneous mixture possesses a uniform appearance and composition throughout.* Defines a homogeneous mixture correctly.
11. **A** — *Allowing industrial chemical effluents to flow untreated into rivers.* Discharges toxic pollutants and hazardous heavy metals directly into surface waters.
12. **C** — *Force.* Scientifically defined as a push or a pull acting upon an object.
13. **A** — *Iron nail, stone pebble, metal coin.* All three items are denser than water and sink to the bottom.
14. **B** — *Floaters.* Objects having lower density than water remain floating on the surface.
15. **C** — *weight of the object.* Adding sand increases the total downward gravitational pull (weight) without expanding volume, causing it to sink.