

ANSWERS

SECTION A (20 MARKS)

1. C
2. B
3. A
4. D
5. B
6. C
7. C
8. C
9. C
10. D
11. C
12. B
13. B
14. B
15. D
16. C
17. C
18. C
19. B
20. C



SECTION B (30 MARKS)

21

(a) Acid

(b)

- Baking soda is a base
- It neutralizes the acid injected by the insect
- This reduces pain and irritation at the sting site

22

(a) Any two:

- Cell wall
- Nucleus
- Cell membrane
- Vacuole

(b)

- Always carry microscope with two hands
- OR
- Handle glass slides carefully to avoid breakage

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Aluminium is an element because:

- It is made up of only one type of atom
- It cannot be broken down into simpler substances by chemical means

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Any two:

- Solids have a definite shape (ruler does not change shape)
- Solids are rigid / hard
- Some solids are slightly compressible (eraser squishes slightly)

25

Elements:

- Oxygen
- Nitrogen

Compounds:

- Carbon (IV) oxide

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(a) Evaporating dish

- Because it allows safe and efficient evaporation of water to recover salt

(b)

- Evaporating dish withstands direct heat safely
- Beakers may crack under direct strong heating

(c)

- Wire gauze spreads heat evenly and protects glassware from direct flame

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(a)

W: Freezing

X: condensation/solidification

Y: Deposition

(b)

- Evaporation OR boiling OR melting OR sublimation

28

- Liquids have no fixed shape
- They take the shape of the container but keep a fixed volume

29

(a)

- Dry cells supply electrical energy (voltage)

(b)

- Adding cells increases voltage
- More electrical energy is supplied to the bulb
- This increases current flow and brightness

(c)

- The circuit becomes incomplete (open circuit)
- No current flows and the bulb goes off

