

1.3. The Scientific Method :Questions from the Flowchart

Part I : Multiple choice questions

1. What was the initial **observation** made about the torch?

- A) The torch was very bright
- B) The torch does not work
- C) The bulb was glowing
- D) The batteries were new

2. What **question** did the observation lead to?

- A) How long will the torch last?
- B) Why the torch does not work?
- C) Who invented the torch?
- D) When should I buy a new torch?

3. Which of the following was suggested as **Hypothesis 1**?

- A) The bulb burnt out
- B) The batteries are new
- C) The switch is too strong
- D) The torch is clean

4. What was **Hypothesis 2**?

- A) The torch has no handle
- B) The bulb is improperly screwed in
- C) The torch is old
- D) The bulb is very bright

5. Which experiment was used to test Hypothesis 1?

- A) Reinstalling the bulb
- B) Replacing the bulb
- C) Cleaning the torch
- D) Shaking the torch

6. What was the final conclusion of the experiment?

- A) Both hypotheses were rejected
- B) Hypothesis 1 was accepted, Hypothesis 2 was rejected

C) Hypothesis 1 was rejected, Hypothesis 2 was accepted

D) Both hypotheses were accepted

Part II : Matching Questions

Match Column A with the correct item in Column B. Put the correct letter from column “B” in the space provide to column “A”

Column A

..... Observation

.....Question

..... Hypothesis 1

..... Hypothesis 2

.....Experiment 1

.....Experiment 2

.....Result 1

.....Result 2

.....Conclusion

.....Communication

Column B

A. Replacing the bulb

B. The torch works (Hypothesis 2 accepted)

C. The torch does not work

D. Why the torch does not work?

E. The bulb burnt out

F. The bulb is improperly screwed in

G. The torch does not work (Hypothesis 1 rejected)

H. Reinstalling the bulb

I. Hypothesis 2 was correct explanation

J. Sharing results in reports/journals