

Explanation

(a) Qualitative Observations

Definition

Qualitative observations are less accurate, variable and can't be measured. These represent the quality of substance e.g., beauty, intelligence etc.

- ▶ The freezing point of water is colder than the boiling point.
- ▶ A liter of water is heavier than a liter of ethanol.

(b) Quantitative Observations

Definition

These represent quantity which can be measured in term of numbers and are measurable and invariable.

- ▶ The freezing point of water is 0°C and the boiling point is 100°C .
- ▶ A liter of water weighs 1000 grams and a liter of ethanol weighs 789 grams.

(iii) Formulation of Hypothesis

Definition

Any suitable proposition that might be true is hypothesis.

OR

The tentative explanation of observations is called a hypothesis.

Characteristics of hypothesis

- (a) It should be a general statement.
- (b) It should be a tentative idea.
- (c) It should agree with available observations.
- (d) It should be kept as simple as possible.
- (e) It should be testable and potentially falsifiable.

iv) Deductions

Definition

It is a logical conclusion drawn from hypothesis.

The deductions are tested through experiments.

Testing one deduction and finding it correct does not mean the hypothesis is correct but the validity of hypothesis is more supported if many deductions confirm the hypothesis.

v) Experiments

Experiments are designed to test the deduction. Biologists perform experiments to see hypotheses are true or not. For this purpose, experimental and control groups are formed.

Experimental group

The group of those who are affected in some way and we do not know the real cause e.g., a group of malarial patients.

Control Group

It is the group of unaffected people i.e. group of healthy persons in case of malaria.

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Guillaume Favre



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