

Appliances Used in Experimental Physiology

Experiment 12 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To identify physiological recording equipment and its input and output

Principle

A recording system combines a stimulus or physiological input, a transducer and a time-calibrated record. The instrument transforms a physical event into a trace; calibration connects trace size to the measured quantity.

Requirements

- Instructor-provided labelled diagrams, traces or data for this activity.
- Calculator, graph paper or spreadsheet, and the activity record.

Procedure

1. Identify

Inspect teaching images of a stimulator, recording lever, transducer, kymograph or digital acquisition system and time marker.

2. Trace the signal

Draw the pathway from physiological event to sensor and recorded trace.

3. Check calibration

Record units, time scale, baseline and calibration value before interpreting a trace.

Human Anatomy and Physiology

Observations and Record

Record item	Entry
Activity / material identifier	_____
Measurement or visible feature	_____
Comparison / calculated outcome	_____
Interpretation and limitation	_____

Result

The recorded finding is ____; the supporting observation or calculation is _____. The main limitation is _____.

Precautions

- Use the supplied teaching material; distinguish a measured observation from an assumed value.
- Keep units, axes, labels and measurement conditions consistent.
- Record limitations and seek instructor review before applying a conclusion to a live case.

Viva Questions and Answers

1. What is the main endpoint?

Identify physiological recording equipment and its input and output

2. Does one observed result prove a general conclusion?

No. Controls, repeatability and the limitations of the method must be considered.

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