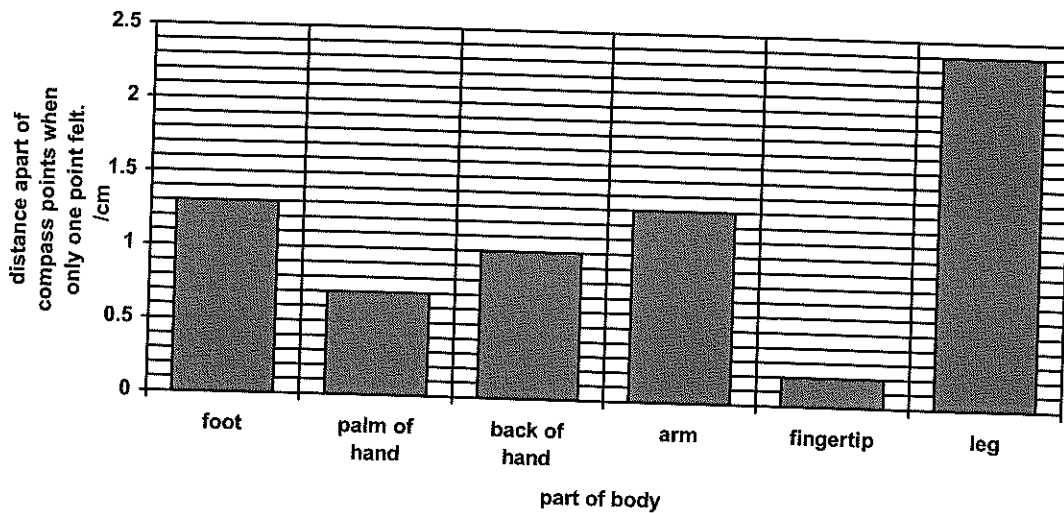


GCSE BIOLOGY NERVOUS & HORMONAL CO-ORDINATION

Low Demand Questions

QUESTIONSHEET 2

A student carried out an investigation to find out how sensitive the skin was on different parts of the body. The student placed two points of a compass gently on a person's skin and recorded whether they could feel two points or one point. This was repeated with the points of the compass being moved closer together until the person could only detect one point of the compass. The investigation was carried out on different parts of the body. The results are shown in the bar chart.



- (a) How far apart were the points of the compass when the subject could only detect one point
 - (i) on the palm of the hand?

.....[1]
 - (ii) on the foot?

.....[1]
- (b)(i) Which part of the body was most sensitive?

.....[1]
- (ii) Which part of the body was least sensitive?

.....[1]
- (c) Which two parts of the body were equally sensitive?

.....[2]
- (d) Name one other stimulus to which the skin is sensitive.

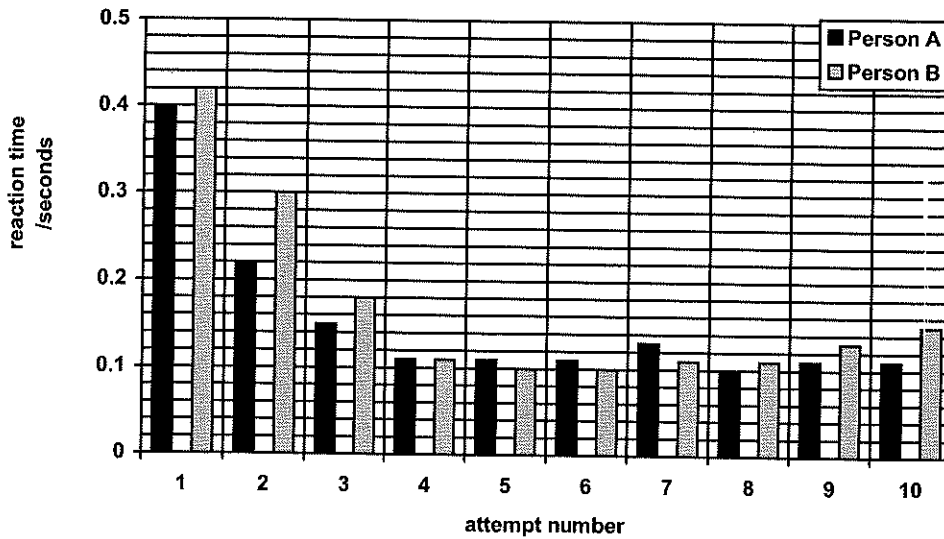
.....[1]

GCSE BIOLOGY NERVOUS & HORMONAL CO-ORDINATION

Medium Demand Questions

QUESTIONSHEET 11

A student carried out an experiment to measure the reaction time of two people. Each person had to press a buzzer when a light flashed on. The time taken for each person to react was recorded and plotted on the chart. The test was carried out 10 times.



(a)(i) What was the slowest reaction time?

.....[1]

(ii) What was the fastest reaction time?

.....[1]

(b) Describe how the reaction time of person B changed over the 10 attempts.

.....

[3]

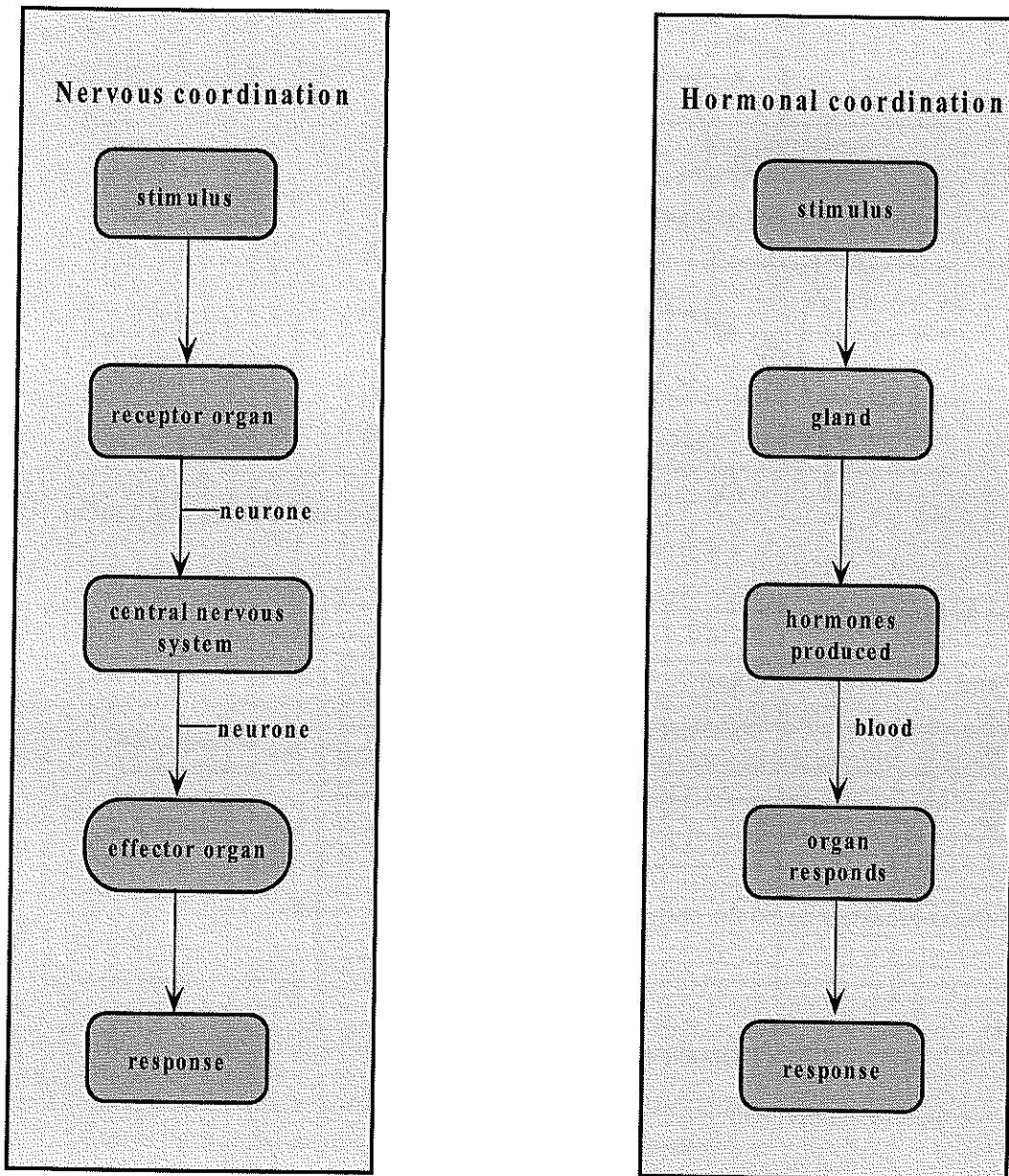
(c) What was the stimulus in this experiment?

.....[1]

(d) How would the persons' reaction time have differed if they had been given a drink of alcohol before the experiment?

.....[1]

The diagram shows an outline of nervous and hormonal co-ordination.



(a) Give three ways in which the two methods of co-ordination are similar.

.....

.....

..... [3]

(b) Give three ways in which the two methods of co-ordination are different.

.....

.....

..... [3]