AS Level Biology A

H020/01 Breadth in Biology

Question Set 1

Multiple Choice Questions

1. A student designed an investigation into the rate of transpiration in plants. They used eight leavesof the same size, age and species. They kept environmental conditions such as wind speed, temperature and humidity constant.

Why did the student take readings from eight different leaves?

A to make their investigation valid

B to increase the accuracy of their readings

C to assess the repeatability of their data

D to improve the precision of their results

Your answer ☐

[1]

2. A scientist was investigating the effect of two different temperatures on the rate of enzyme controlled decomposition of ammonia, in soil bacteria.

They repeated their experiment ten times for each of the two different temperatures.

Which of the following, **A** to **D**, should they use to determine if there was a significant differencebetween these two sets of times?

A standard deviation

B Student's t-test

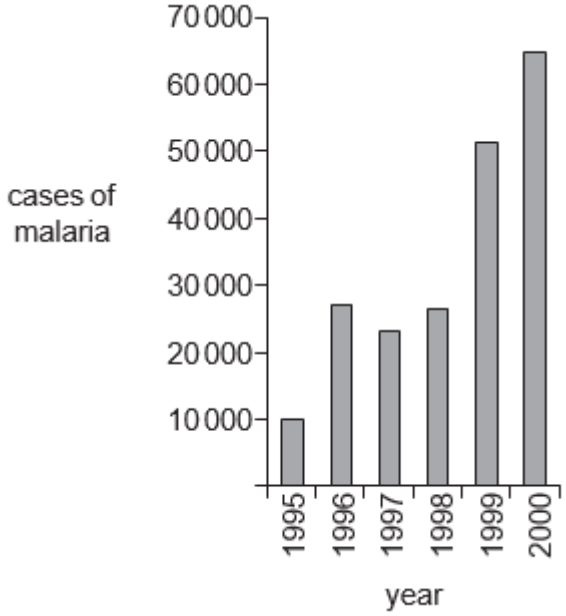
C chi squared test

D Spearman's rank correlation coefficient

Your answer ☐

[1]

3. The chart shows the number of reported cases of malaria in South Africa between 1995 and 2000.



Which of the following, **A** to **D**, is the percentage increase from the number of cases of malaria in1995 to 2000?

A 85%

B 550%

C 650%

D 55 000%

Your answer ☐

[1]

Total Marks for Question Set 1: 3