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Level: HL IB in Biology

**Subject: Biology** 

Topic: IB HL Biology Type: Mark Scheme



All International Baccalaureate IB Topic Questions HL Biology

**BIOLOGY** 

HL - IB

Key skills



## **Answer 1**

The correct answer is C because a population is all of the organisms of the same species living in an area at any one time.

A, B, and D all refer to groups of organisms of more than one species. A describes an ecosystem, while D describes a community.

## **Answer 2**

The correct answer is A because statement I is the only correct statement.

B, C, and D all contain statements II, III, or both.

Random samples cannot be achieved by throwing a quadrat as this can be affected by throwing ability. A random number generator must be used.

Quadrats can be of any size to incorporate any size of organism; their use is, however, limited to sessile organisms (organisms that are fixed in place eg. by attachment to the ground via a stalk or foot).

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## Answer 3

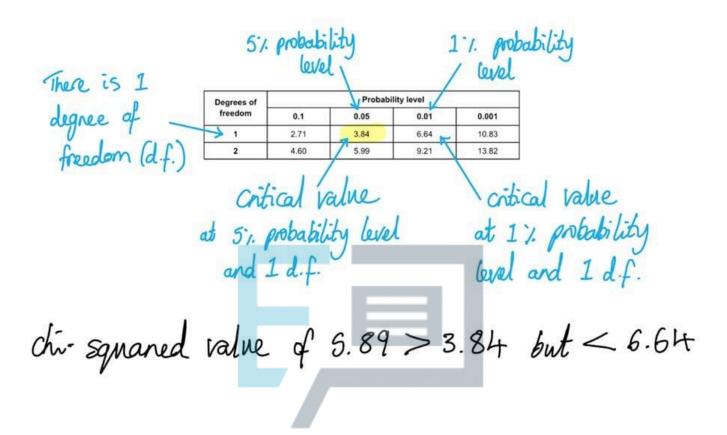
The correct answer is C because the chi-squared value is larger than the critical value at a probability level of 0.05, or 5%.

For A to be correct the chi-squared value would need to be smaller than the critical value at the 5% probability level.

B could be the explanation for the conclusion reached in statement C, but the chi-squared test alone does not provide the evidence to reach this conclusion.

D is incorrect because the chi-squared value is smaller than the critical value at a probability level of 0.01, or 1%.





## EXAM PAPERS PRACTICE

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