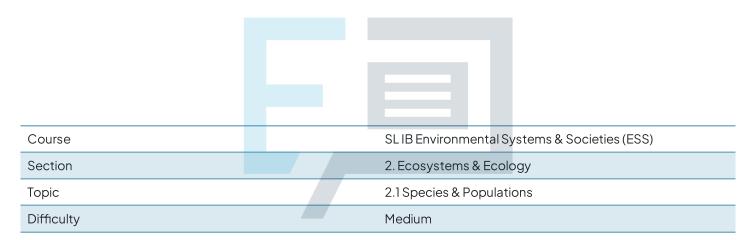


2.1 Species & Populations

Question Paper



Exam Papers Practice

To be used by all students preparing for SL IB Environmental Systems & Societies (ESS) Students of other boards may also find this useful



Question la

Outline the role of **abiotic** factors and how they influence ecosystems, providing examples to illustrate their impact.

[4 marks]

Question 1b

Outline the role of **biotic** factors and how they influence ecosystems, providing examples to illustrate their impact.

[4 marks]

Exam Papers Practice

Question 2a

With reference to a named species, distinguish between the terms habitat and niche.

[2 marks]



Question 2b

Distinguish between the terms fundamental niche and realised niche.

[2 marks]

Question 3a

Compare and contrast predation and competition.

[4 marks]



Question 3b

Papers Practice

Define the term carrying capacity.

ii)

Outline **four** factors that contribute to the difficulty in estimating carrying capacity.

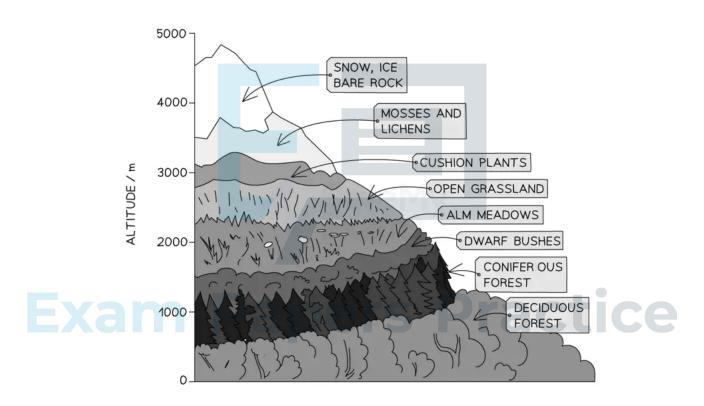
At least **two** of these factors should be specific to human populations.

[5 marks]



Question 4a

The figure below shows how the dominant vegetation changes with altitude in the Alps mountain range in Europe.



 $Identify \, \textbf{three} \, limiting \, factors \, likely \, to \, be \, affecting \, alpine \, vegetation \, above \, 2\,500 \, m.$

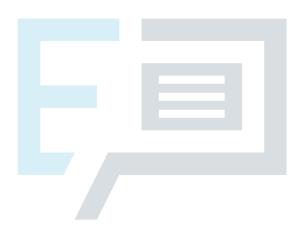
[3 marks]



Question 4b

Explain the role of limiting factors in shaping S and J population curves.

[4 marks]



Exam Papers Practice