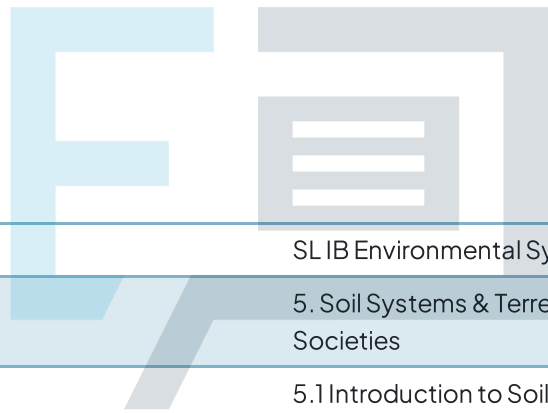




5.1 Introduction to Soil Systems

Question Paper



Course	SL IB Environmental Systems & Societies (ESS)
Section	5. Soil Systems & Terrestrial Food Production Systems & Societies
Topic	5.1 Introduction to Soil Systems
Difficulty	Medium

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 1a

State **two** examples of transformation processes occurring within soil systems.

[2 marks]

Question 1b

State **two** examples of transfer processes occurring within soil systems.

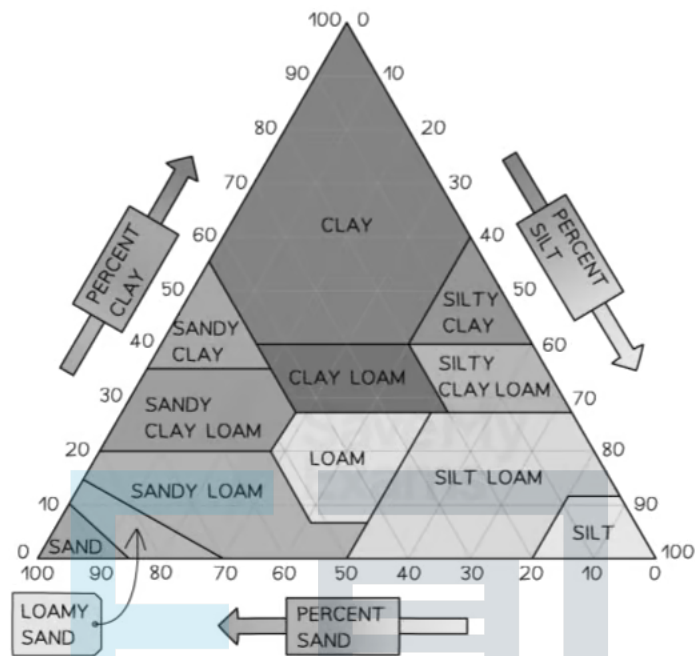
[2 marks]



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Question 2a

The figure below shows how soil textures are classified by the proportions of sand, silt and clay present.



The table below shows the composition of two soil samples, Soil A and Soil B. Soil A is classified as clay.

Soil	Clay / %	Silt / %	Sand / %
A	60	30	10
B	20	40	40

With reference to the figure and the table, determine the classification of Soil B.

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[1 mark]

Question 2b

Deduce, giving reasons, whether Soil A or Soil B would be more suitable for growth of crops.

[3 marks]

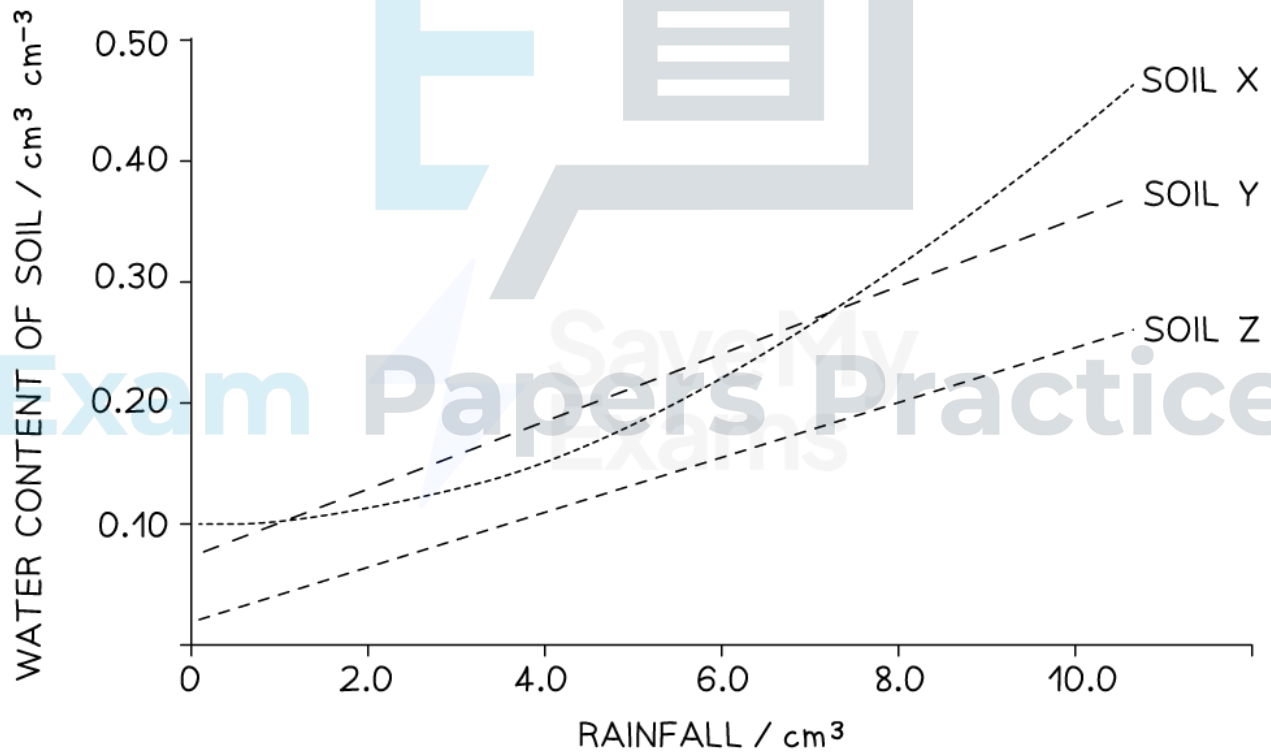
Question 3

Outline what the *O* horizon represents in a soil profile.

[3 marks]

Question 4a

The figure below is a graph showing the water content of three different soils (X, Y and Z) as rainfall increases.



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Describe the trend in water content for Soil X as rainfall increases.

[2 marks]

Question 4b

Complete the table below by identifying which of the three soils **X**, **Y** or **Z** match the soil types listed.

Soil type	Soil X, Soil Y or Soil Z
Loam	
Sand	
Clay	

[2 marks]



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