

LOCATION: SWANSEA

LLEOLIAD: ABERTAWE

LEVEL 4

LEFEL 4

EXAMINATION PERIOD
MAY 2022

CYFNOD ARHOLIADAU
15TH MAY 2022

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MODULE CODE: M1X9615
PHYSICAL LANDSCAPE

Section A

Please answer ALL of section A & B

Question 1

- (a) Draw a diagram to show how salinity, sediment movement, energy source, depth and geomorphology are in transition between sea and land.

Draw the diagram in the box (below).

(5%)

	SEA	COASTLINE	LAND
Salinity			
Sediment movement			
Energy source (Tides, rivers, and waves)			

Depth	
Geomorphology	

(b) Comment on what the diagram shows and how it helps us understand environmental management (5%)

Question 2

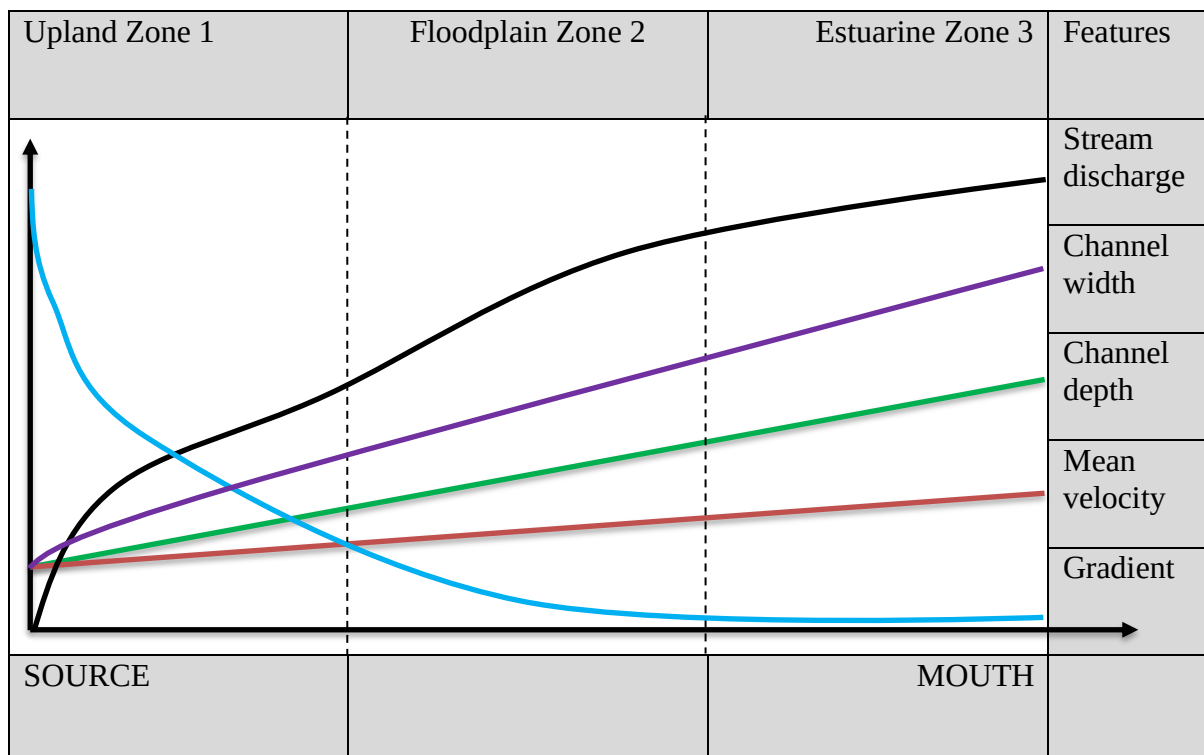
1. **Hydation** – Rocks that can absorb water.
2. **Oxidation** – Rusting.
 - Combination of oxygen in aerated soils aerobic.
 - Opposite waterlogged soils reduction anaerobic.
3. **Carbonation** – Carbonic acid. Example: Limestone Pavements.
4. **Hydrolysis** – Hydrogen reacts with minerals in the rock. Example: Kaolinisation.
5. **Formulae**

Question 3

- **Rock structures:** Bedding planes, Mineral content, Joints, Alternating rock types, Earthquakes, Impermeable and Permeable.
- **Slope angle.**
- **Soils:** Sands vs Clay; Saturated (pore water pressure forces particles apart < friction), Depth.
- **Climate:**
 - Precipitation: > Mass; > Erosion foot of slope (rivers); > Snow weight rapid slope failure; Expansion/ contraction (wet/dry.
 - Sun: Dry out soil and break down structure
- **Human influences:** Deforestation, Disposal of waste, Agricultural processes, Construction of roads, etc.
- **Vegetation:** Root form and quantity and Interception.

Question 4

a)



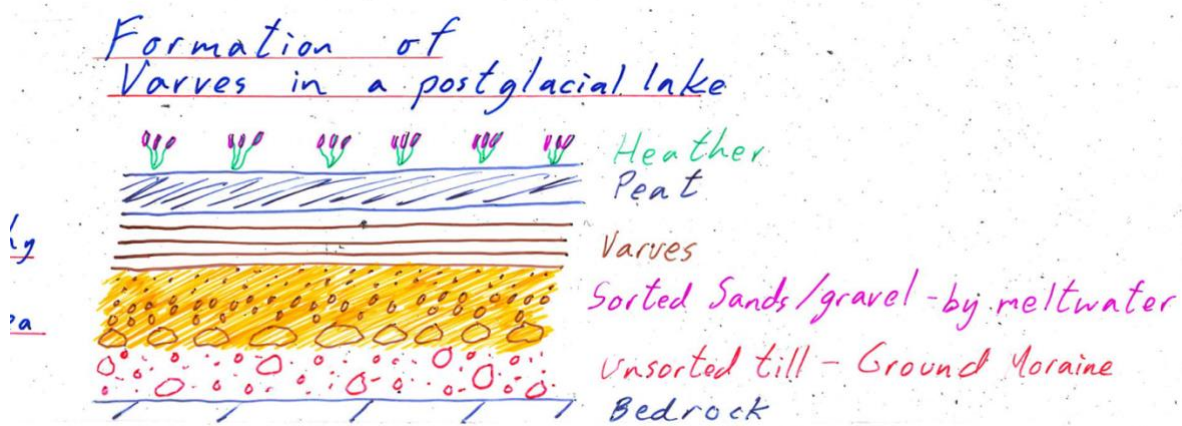
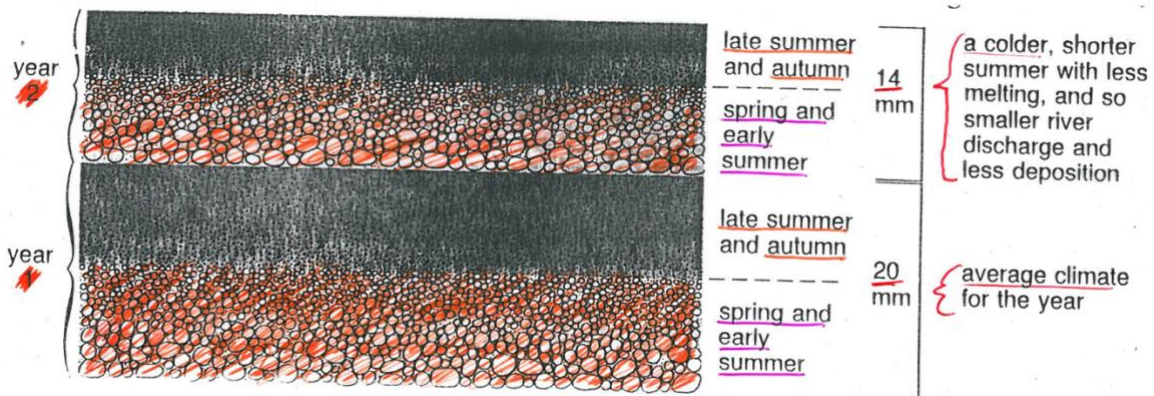
b)

Tells us how the flows of rivers work slow or quickly in each section.

Question 5

a)

Varves are lake sediments used for climate change and habitat reconstruction.



b)

It can be used:

- To give clues about past climate change or conditions and various ecosystems.
- Determine the age of the rocks of flacial origins.
- To determine the true or calendar age of events.

Section B

Question 1

We cannot be healthy in a toxic, unhealthy and ill-treated environment. Overcoming the alienating reductionism that empties the concept of sustainable development. Not hiding or keeping out of the media discussion the ideological differences and conflicts of interest that are present in the concepts that have led to the various concepts (3 Reasons Why Conservation Is So Important - Pure Leisure, 2019). Nevertheless, it must be remembered that the landscapes also have their different aspects, not only due to their physical characteristics themselves, but also depending on the view of the observer. It often happens that two different people look at the same landscape and have different views, impressions and opinions about it. This creates a relationship of identity and subjectivity between the landscape and the person, referring to the idea of culture, which influences the way society sees its reality. As an example River

restoration aims to return a watercourse to its pre-disturbance condition. Often, full restoration is not possible due to permanent changes in local land use, such as urban development. However, almost all altered streams can be restored in some way to improve their ecological value and aesthetics (Rivers conservation | Department for Infrastructure, 2022).

Obviously it has much more than our eyes can even imagine, it has life and history in the physical landscapes, habitats and what constitutes and creates our planet, it is not just about beauty when it comes to the look but, in the care and conservation when it comes to life, animals, humans, nature itself and the planet.

References

Pure Leisure. 2019. *3 Reasons Why Conservation Is So Important - Pure Leisure*. [online] Available at: <<https://www.pure-leisure.co.uk/3-reasons-why-conservation-is-so-important/>>

Infrastructure. 2022. *Rivers conservation | Department for Infrastructure*. [online] Available at: <<https://www.infrastructure-ni.gov.uk/articles/rivers-conservation#:~:text=River%20Restoration%20aims%20to%20return,their%20environmental%20value%20and%20aesthetics.>>>

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