**Coasts Review Notes – Handouts 5-6**

**What are sub-aerial processes and where do they operate?**

**Definitions:-**

**Weathering**

**Mass movement**

**Run-off**

**For each of the above – explain the processes below.**

|  |  |  |
| --- | --- | --- |
| **Mechanical (physical)** | **Biological** | **Chemical** |
| **Frost shattering****Wetting and drying****Pressure release****Salt crystallisation****Exfoliation** | **Plants and animals** | **Oxidation****Hydrolysis****Hydration****Carbonation****Solution****Acid rain** |

**What factors might affect the rate of chemical weathering?**

**Explain how the following affect rates of erosion:-**

1. **Wave steepness**
2. **Breaking point**
3. **Fetch**
4. **Sea depth**
5. **Coastal configuration**
6. **Sea depth**
7. **Beach presence**
8. **Human activity**
9. **Lithology**
10. **Dip**
11. **Structure (concordant and discordant)**

**Which do you think are the most important?**

**What are the factors affecting mass movement?**

**Draw diagrams to explain each of the following types of mass movement:-**

 **Soil creep, mud flows, rockfall, slumping, landslide.**

**What type of mass movement has occurred at the following locations and why?**

 **Beachy Head**

 **Barton on Sea**

**Holderness Coast**

**What is the definition of erosion?**

**Explain the following types of marine erosion:-**

 **Wave quarrying**

 **Hydraulic action**

 **Corrasion/Abrasion**

 **Attrition**

 **Corrosion/solution**

**What are the different processes of transportation along the coast?**

**Drawn diagrams to illustrate them.**

**Explain the process of longshore drift and draw a detailed diagram to show the process.**

**How can humans impact the process of longshore drift?**