**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?**