

**Student ID:16086**

**Name:Hammad Ali**

**Section: A**

**Subject: Enginnering Geology**

**Instructor: Engnr.Imtiaz Khan**

**SOLVE THE FOLLOWING QUESTIONS**

**Question: 1 According To paper**

**Answer:**

**Figure A:**

- A.** It is a process of weathiering.
- B.** Grain changes due to erosion.grain size reduces angularity decreases from B to C.
- C.** Deposition followed by the overburdening ,cementation and lithification.
- D.** Rock density increases and metamorphic fabric develop with icreasing grade of metamorphism.At point **D** with increased temperature molten rocks rise up in the form of plutons due to decreaded density.

### **Figure B: part A**

**Box 1: is (4)**

**Box2: is (2)**

**Box3: is (1)**

### **Part B:**

#### **Answer:**

Grain Changes due to erosion. Grain size reduces and angularity decreases.

### **Figure C: part A**

**1:** It is cinder cone volcano.

**2(a):** Gases trapped in the volcano to build pressure is released with great violence when reaches the vent.

**More gases more explosive eruption more ash.**

### **Composition of gases in Magma**

Mostly H<sub>2</sub>O water vapour and some Co<sub>2</sub>.

Less amount of sulphur, fluorine and chlorine gases.

### **Part 2(a)**

These signs may include very small earthquakes beneath the volcano, slight inflation, or swelling, of the volcano and

increased emission of heat and gas from vents on the volcano

Hot gases and smoke comes out.

**2(B)**

lung disease that is caused by inhaling very fine volcanic ash and sand dust.

It may effect other health problems respiratory illness, burns, injuries from falls.

It caused acid rain and Eruptions may trigger lahars by melting snow and ice.

**D. Answer the following questions?**

- (i) **In the table below are statements that refer to either Weathering or Erosion. Complete the table by writing Weathering or Erosion in the spaces provided.**

Answer:

A) Weathering.

B) Erosion.

C) Erosion.

D) Weathering.

**(ii) A statue was made from limestone. Rain makes limestone weather more quickly than sandstone. What substance in the rainwater causes this?**

**Answer:**

**CO<sub>2</sub> and SO<sub>2</sub>** in the air combines with rain water increasing its acidity. The acids **H<sub>2</sub>CO<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub>** in water drops causes acid rain, which result in corrosion of statues which are generally made of lime.

**(iii) Why igneous rocks never contain fossils?**

**Answer:**

Igneous rocks do not contain any fossils. This is because any fossils in the original rock will have melted when the rock melted to form magma.

Igneous rocks forms in the subsurface where organism cannot sustain.

**(iv) Granite takes much longer to cool deep underground than basalt lava at the Earth's surface. How and why is the size of the crystals in granite different from the size of the crystals in basalt?**

Answer:

slow cooling makes time for minerals to acculamate and create larger crystels.as basalt it cool down suddenly so there is no time for crystal formation,whereas pluton has the potential to grow crystalline.

**(v) Describe one process that might be responsible for producing the large, angular, poorly sorted fragments in the Scree sediment collecting at the bottom of the cliff?**

**Answer:**

Scree sedmints at the bottom of cliff are larger angular and poorly sorted.because of Glacial transport.

**Thank you**



