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| outhern River College | **Year 11 Earth and Environmental Science**  **Task 6: End of Unit** |

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| **Name:**  **Due Date:** | **Teacher:** | **Score: /60** |

This test has two sections **\_\_ multiple choice questions** and **\_\_ short answer questions.**

1. Which of the following has the is the least hardness according to Moh’s scale?  
 a) Diamond  
 b) Quartz  
 c) Talc  
 d) Fluorite

2. Which of the following is **NOT** a known lustre?

a) Pearly

b) Waxy

c) Glassy

d) Shiny

3. Which of the rocks below is an example of an **igneous rock?**

a) Obsidian

b) Marble

c) Gneiss

d) Limestone

4. Which of the following is the correct?

a) Intrusive igneous rocks have small crystals

b) Intrusive igneous rocks have large crystals

c) Extrusive igneous rocks have no crystals

d) Extrusive igneous rocks have large crystals

5. Which of the following is an example of a **metamorphic rock?**

a) Marble

b) Siltstone

c) Granite

d) Gabbro

6. Which of the following describes a **convergent plate boundary?**

a) Two tectonic plates pulling apart

b) Two tectonic plates sliding past one another

c) Two tectonic plates colliding against one another

d) Two tectonic plates created from pressure from magma below

7. Which landform would you expect with a divergent plate boundary between two ocean plates?

a) Volcanoes

b) Deep ocean trench

c) Rift Valley

d) Mid ocean trench

8. Which of the following is **NOT** an agent of erosion

a) Temperature

b) Wind

c) Water

d) Ice

9. Which is the largest layer in the Earth’s interior?

a) Crust

b) Mantle

c) Outer core

d) Inner core

10. What conditions are needed for the formation of a metamorphic rock?

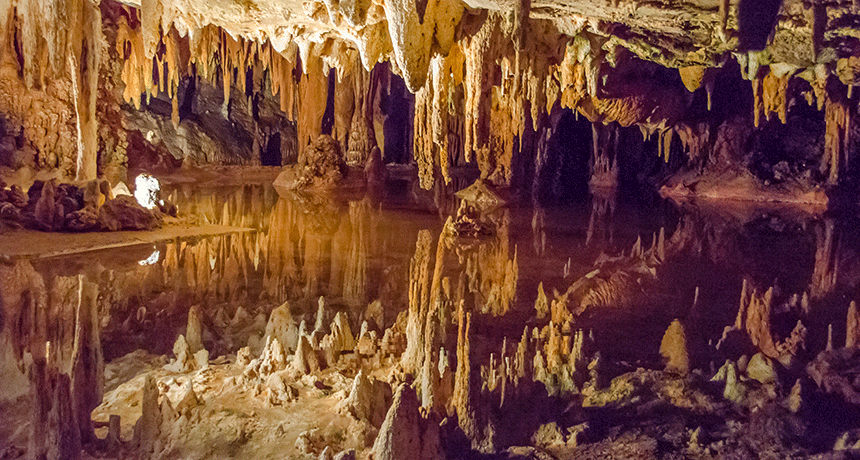
a) Heat

b) Fire

c) Magma

d) Heat and Pressure

11. In the image below, what type of weathering has occurred?

 a) Oxidation

b) Solution and carbonation

c) Frost wedging

d) Biological weathering

12. Which of the following in **NOT** an example of biological weathering?

a) Plants growing through rock cracks

b) Humans mining

c) Animals burrowing within a rock

d) Rocks breaking apart due to temperature change

13. Which method of soil conservation describes leaving 30% of crop on the surface during peak soil erosion periods?

a) Conservation tillage

b) Cover crops

c) Alley cropping

d) Strip cropping

14. Which is the correct definition for **porosity?**

a) Ability of soils to transmit water

b) How easily water flows through the soil profile

c) Size of the gaps between soil particles

d) how easily soils are eroded

15. Which of the following soils would have the smallest porosity?

a) Silt

b) Clay

c) Clay loam

d) Sand

**SHORT ANSWER SECTION**

16. Below is an image of a soil conservation method. Please name the method and describe why this is used to preserve soils. **(3 marks)**

A picture containing leaf

Description automatically generated\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

18. Name the two types of weathering that can occur **(2 marks)**

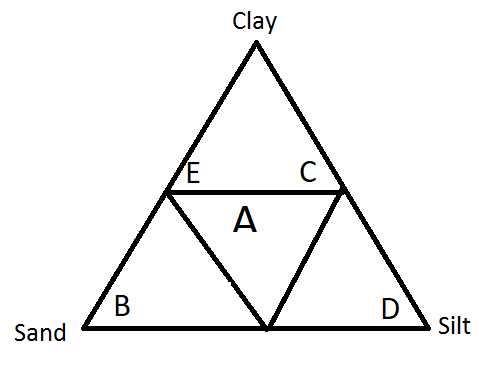
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19. Describe the formation of Igneous extrusive rocks **(4 marks)**

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21. Label the following soils in the soil texture triangle below **(5 marks)**

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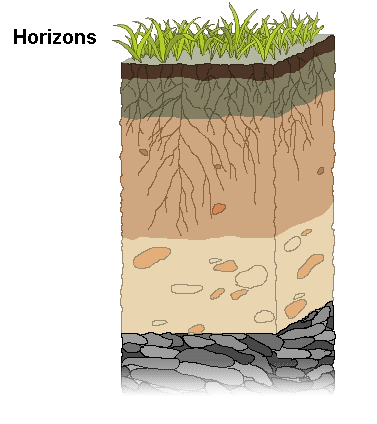
**A** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**C** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**D** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**E** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

24. Label the following diagram of the soil profile **(5 marks)**

ADD IN QUESTION MATCH SCIENTIST and CONTRIBUTION TO PLATE TECTONICS

ADD IN QUESTION FORMATION HAWAII