This is a Class 1 exam

Lebanon Evangelical School for Boys and Girls

Lebanon Evangelical School
for Boys and Girls Loueizeh - Baabda

Stage Exam 02

08DEC2023

Do NOT write in this box. Your MARK will be placed here.

Subject :	Science
Class :	6A, 6B, 6C and 6E
Teacher :	Mrs. Aya Al-Mawla
Duration :	1 hour

Answer on a SEPARATE grid sheet
DO NOT answer on the same paper

Your name :		*Time taken to complete exam*
Your Class :		
Exam Room :		
How many sheets, including cover sheet :		

- Do not open this paper until the teacher in charge instructs you to do so.
- The most important thing to remember in taking an exam is NEVER PANIC.
- If you are caught cheating in this exam, you will be awarded zero for ALL exams that are taken on this day.

Write your answers on a **SEPARATE GRID-SHEET**

I- **Choose** the correct answer. *(10 points)*

1- The main components of Earth's systems are:
   A- Rocks, soil, water and trees
   B- Petroleum, water, and gas
   C- Air, water, rocks and living things
   D- Gold, diamonds and limestone

2- The middle layer of the Geosphere is the:
   A- Crust
   B- Mantle
   C- Core
   D- Oceans

3- Land, soil, mountains, volcanoes, minerals are all part of the:
   A- Geosphere
   B- Hydrosphere
   C- Biosphere
   D- Atmosphere

4- What is true about weathering and erosion?
   A- Change in air temperature
   B- Volcanic eruptions take place
   C- Rocks being naturally broken into sediments and then relocated.
   D- Rocks reaching the hot mantle and turning into magma

5- Which of the following is the correct *sequence* of processes that take place for sedimentary rocks to be formed?
   A- Cementation, Compaction, Erosion, Weathering, Deposition
   B- Weathering, Erosion, Deposition, Compaction, Cementation
   C- Weathering, Erosion, Uplift, Cementation, Compaction
   D- Uplift, Compaction, Weathering, Cementation, Deposition

6- During which process of the water cycle does liquid water turn into water vapor?
   A- Condensation
   B- Evaporation
   C- Freezing
   D- Precipitation

7- The layer of the atmosphere that leads us to outer space is called the:
   A- Troposphere
   B- Mesosphere
   C- Thermosphere
   D- Exosphere

8- The coldest layer of Earth's atmosphere is the:
   A- Thermosphere
   B- Stratosphere
   C- Mesosphere
   D- Troposphere

9- What gases are the <u>least</u> abundant (*present*) in Earth's atmosphere?
   A- Oxygen
   B- Nitrogen
   C- Carbon dioxide and Argon
   D- Oxygen and Nitrogen

10- Which layer is responsible for protecting Earth from ultraviolet Sun rays?

A- Layer 1 B- Layer 2

C- Layer 3 D- Layer 4

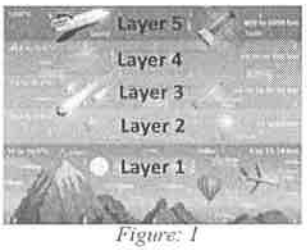


Figure: 1

II- **Indicate** the term that is described in each of the following sentences. *(12 points)*

1- The natural movement of rocks formed underground *up* to the surface.
2- The process through which a gas changes into a liquid, so clouds are formed.
3- The largest natural water reservoir.
4- The frozen part of Earth's fresh water.
5- The thin brittle layer of the Geosphere.
6- The part of the Geosphere mainly composed of metals.
7- Natural inorganic solids of crystal structures that make up rocks.
8- Broken pieces of rocks resulting from weathering.
9- The type of rocks formed when layers of sediments are cemented together.
10- The movement of the air particles.
11- The amount of water vapor in air.
12- The state of the atmosphere at a certain time and place.

III- **Determine** whether each of the following factors influence the weather or the climate. (*Write* "**W**" *for weather, and* "**C**" *for climate.*) *(5 points)*

1- Air temperature
2- Degrees of latitude (*Distance from the Equator*)
3- Humidity
4- Air pressure
5- Humans' polluting activities.

IV- **Use** the "Water Cycle" diagram below to answer the questions that follow. *(7 points)*

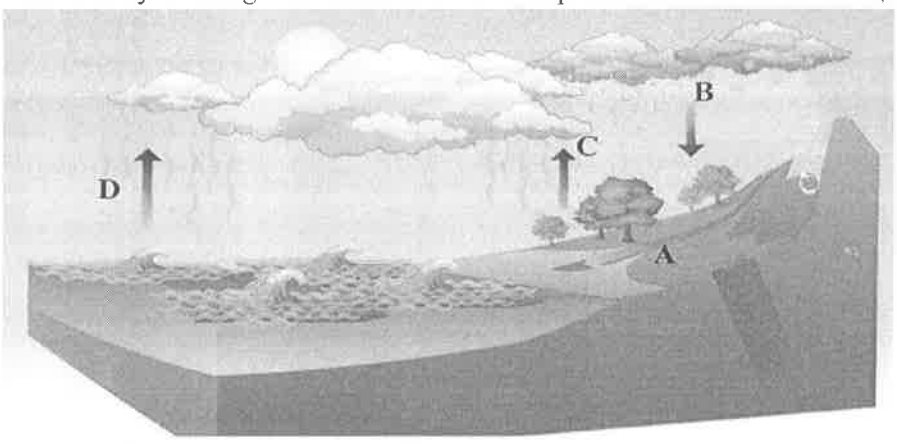


Figure 2

1- Label the processes **A**, **B**, **C** and **D**.
2- What systems *interact* in process B?
3- The diagram shows two ways through which *water vapor* can be released into the atmosphere, indicate the third way.

V- **Answer** the following questions about the materials and processes in the "Rock Cycle". *(4 points)*

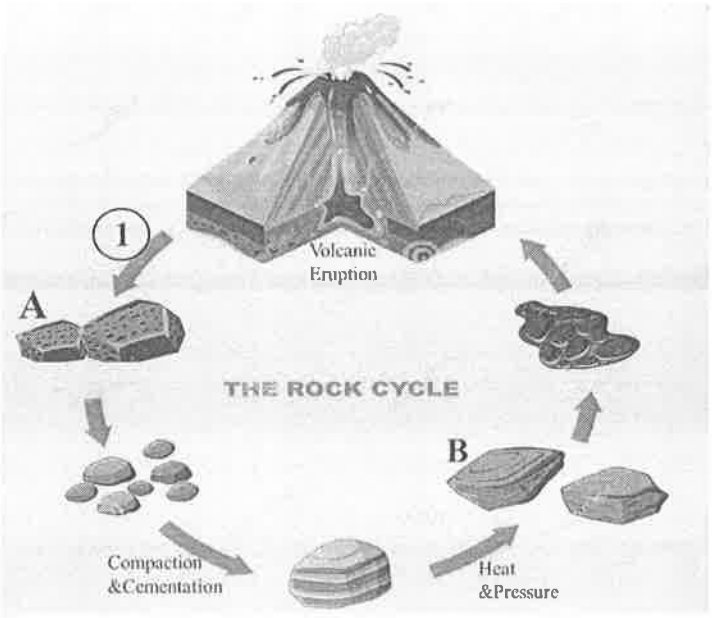


Figure 3

1- Label the *materials* **A** and **B**.
2- **Name** then **EXPLAIN** *process* number "1".

VI- **Read** the text then **answer the questions** that follow. *(4 points)*

> Jennifer found some inorganic crystals buried underground. She observed that they had different colors, and that they produced various colors when rubbed over hard surfaces. She also noticed that all the crystals reflected light but some were brighter than the others.

1- *Indicate* three *physical properties* of minerals mentioned in the text.
2- Based on your knowledge, What role do minerals have in the *ocean water*?

VII- **Answer** the following questions. *(8 points)*

1- Oceanic crust is usually found underneath oceans, whereas continental crust is found beneath land. *Differentiate* between oceanic and continental crusts using one property.
2- *Relate* the Biosphere to the other three Earth's systems.
3- *List* two types of surface fresh water reservoirs.
4- *Compare* and *Contrast* Sleet and Snow.
5- Jack went on a hiking trip to Mount Hermon. *How* did the wind breeze feel (*warmer or cooler*) as he moved higher? *Why?*

SE02/2023 2024/Science/6ABCE

(/50)

I_ 1_ C
2_ B
3_ A
4_ C
5_ B
6_ B
7_ D
8_ C
9_ C
10_ B
(10 marks: 1 for each)

II_ 1_ Uplift
2_ Condensation
3_ The Ocean
4_ Cryosphere
5_ Crust
6_ Core
7_ Minerals
8_ Sediments
9_ Sedimentary rocks
10_ Wind
11_ Humidity
12_ Weather
(12 marks: 1 for each)

III_
1_ W
2_ C
3_ W
4_ W
5_ C
(5 marks: 1 for each)

IV_ 1_ A: Collection / Runoff
B: Precipitation
C: Transpiration
D: Evaporation (4 marks: 1 for each)

2_ The atmosphere & the hydrosphere (1) (1) (2 marks)
OR The atmosphere & the geosphere
3_ Respiration. (1 mark)

V_ 1_ A: Igneous rocks (2 marks: 1 for each)
B: Metamorphic rocks

2_ Process 1: Cooling and Crystallization. (1 mark)
It is the process through which lava cools on the surface, and crystals forms as it hardens. (1 mark)

VI _ 1_ . Color
. Luster
. Streak (3 marks: 1 for each)

2_ Minerals cause water to become salty. (1 mark)

VII _ 1_ The oceanic crust is denser than the continental crust.

OR The oceanic crust is mainly formed of Igneous rocks, whereas the continental crust is formed of all 3 types of rocks. (1 mark)

2_ Living things in the biosphere need fresh (1) water from the hydrosphere, air (1) from the atmosphere, and land (1) from the Geosphere. (3 marks)

3_ . Rivers
. Lakes (Any 2)
. Ponds (1 mark: 0.5 each)
. Swamps

4_ Both are forms of precipitation (1). Snow is formed through deposition, whereas sleet is formed through freezing (1) (2 marks: 1 for similarities, 1 for differences)

5_ The air would become cooler as he moved higher in the troposphere. (1 mark)
Air temperature decreases as altitude increases.