



ALADWANA

Gem



Science

الصف 6 الابتدائي

إجابات نماذج امتحانات الأضواء النهائية

الفصل الدراسي الثاني 2024 - 2025

Model (1)

20
Marks

1 (A) Choose the correct answer:

- Most weather phenomena occur in the layer of the atmosphere.

- a) **troposphere** b) mesosphere c) thermosphere d) exosphere

(B) Give a reason for:

1 The regions near the equator have high temperatures.

- **Because the Sun's rays fall perpendicularly, and concentrated on a smaller area giving high effect of heat.**

2 The emperor penguin has thick skin covered with dense feathers.

- **To protect itself from freezing.**

3 Hot air moves upward above cold air.

- **Because hot air is less dense than cold air.**

4 Farmers resort to developing agricultural methods in the desert environment.

- **Because the desert environment has harsh conditions, such as limited water resources, poor soil, and high temperatures.**

2 (A) Complete the following sentence:

- Soil provides**nutrients**.... for plant growth.

(B) What happens when..?

1 The cold air is warmed by the effect of solar energy.

- **The density of the air decreases and it rises upward.**

2 We move up toward the top of a mountain. "relative to the atmospheric pressure"

- **The atmospheric pressure decreases.**

3 We move down toward the bottom of a mountain. "relative to the air density"

- **Air density increases.**

4 The amount of solar energy that reaches the Earth differs from one place to another.

- **This leads to unequal heating of the Earth's surface, with some areas being warmer or cooler than others.**

3 (A) Write the scientific term:

1 The movement of water between different water bodies and the atmosphere. (**Water cycle**)

2 A type of cats that have long, silky hair with different colors. (**Birman Cats**)

(B) Answer the following questions:

1 Mention the main processes that affect the water cycle.

1- **Evaporation** 2- **Condensation** 3- **Precipitation.**

2 What are the causes of desertification?

1- **Excessive cutting of forest trees.**

2- **Occurrence of drought.**

3- **Overgrazing.**

3 Write what you know about humus.

- **It is dark, organic material found in soil, formed from the decomposition of dead plants, animals, and microorganisms.**

4 (A) Put (✓) or (X):

1 Soil fertility decreases when the amount of organic matter increases. (X)

2 Sandstorms do not cause any harm to vehicle drivers. (X)

(B) Answer the following questions:

1 The soil can be classified into three types. Mention the three types of soil.

1- **Sand soil** 2- **Clay soil** 3- **Silt soil**

2 Mention one positive effect of volcanic eruptions.

They increase the soil fertility.

3 Mention two ways to reduce soil erosion.

1- **Increasing the planted areas.**

2- **Digging canals or trenches**

Model (2)

20
Marks

1 (A) Choose the correct answer:

- Desert plants have thick stems and leaves to
- a) store water
 - b) keep herbivores away
 - c) produce seeds
 - d) increase the rate of water loss

(B) Give a reason for:

- 1 Decomposers disappear from soil.
- **The recycling of nutrients won't occur which causes environmental imbalance.**
- 2 As moist air encounters the mountains, it rises and condenses, forming clouds. "Mention the name of this phenomenon."
- **This is known as the rain shadow phenomenon.**
- 3 The Arctic region is characterized by very cold weather.
- **Because the sunlight falls at a very inclined angle on this region.**
- 4 Desert plants have sharp thorns.
- **To protect themselves from herbivores.**

2 (A) Write the scientific term:

- Large areas of land which are formed due to the effect of dry air. (Deserts)

(B) What happens when...?

- 1 The sunlight falls very inclined on a certain area.
- **Its heat is distributed over a very large area giving the lowest effect of heat, and the climate becomes very cold.**
- 2 The African penguin migrates to the South Pole.
- **The African penguin is not adapted to the extreme cold of the South Pole and it won't be able to survive.**
- 3 Deforestation and excessive use of pesticides occur.
- **It leads to environmental pollution and habitat destruction.**
- 4 Water vapor condenses in the sky.
- **Formation of clouds.**

3 (A) Put (✓) or (X):

- 1 Energy does not transfer during the water cycle in nature. (X)
- 2 Weather is the atmospheric condition over a long period of time. (X)

(B) What is the importance or function of ...?

1 The soil for living organisms.

- **Soil provides essential nutrients for plants, a home for different living organisms, like worms.**

2 The anemometer.

- **It is used to measure the speed of the wind.**

3 Genes.

- **Carry inherited traits.**

4 (A) Complete the following sentence using the words between brackets:

- Water evaporates from plant leaves during the process.

(cellular respiration – **transpiration**)

(B) Answer the following:

1 Floods cause many damages. Mention one of them.

- **The destruction of buildings.**

2 Mention the two factors that determine the direction of the wind.

1- **The amount of sun rays**

2- **The rotation of the Earth around its axis.**

3 Mention two challenges that birds face during their migration journey.

1- **Severe climatic condition**

2- **Predatory animals**

4 Imagine there is a water pond in a desert area and another in a cold region. Both ponds are exposed to sunlight with the same intensity . Which one has a higher evaporation rate?

- **The rate of water evaporation from the desert pond will be higher than that from the cold region pond.**

Model (3)

20
Marks

1 (A) Choose the correct answer:

- Which of the following is not a weather factor?

- a) Temperature
- b) **Earthquake**
- c) Air pressure
- d) Wind

(B) Give a reason for:

1 Sandy soil does not retain water for a long time.

- **Because it has large particles.**

2 The difference in atmospheric pressure from one region to another on the Earth's surface.

- **Because as we go higher, the temperature, air pressure (atmospheric pressure), and air density decrease.**

3 The clay soil has the ability to retain water.

- **Clay soil has very small particles preventing water from draining quickly.**

4 Birds migrate from one place to another.

- **To search for food resources, suitable weather conditions, that help them survive and reproduce.**

2 (A) Complete the following sentence using the words between brackets:

- roots in desert plants help in absorbing the maximum amount of groundwater.

(Short – **Long**)

(B) Answer the following questions:

1 What happens when the minerals in soil settle down to the lower layers?

- **Formation of solid layer which the plant roots can't penetrate it.**

2 Mention some devices that can be used to carry measuring instruments high into the atmosphere.

- **Satellites and aircrafts.**

3 Mention the three main processes that affect the water cycle.

1- Evaporation 2- Condensation 3- Precipitation

4 Mention examples of the water reservoirs on Earth.

- **Oceans – Seas Lakes – Rivers Glaciers – Rocks – Atmosphere.**

3 (A) Correct the underlined word:

- Water moves from the oceans to the air through runoff process. (evaporation)

(B) What happens

1 When water vapor in air hits a cold glass of juice.

- **The water vapor condenses into liquid droplets on the surface of the glass.**

2 If water and light are not available "relative to plants".

- **If water and light are not available, plants cannot carry out photosynthesis, which means they cannot produce their own food.**

3 If a bog contains sand soil in a larger amount than clay soil . "relative to the water storage".

- **The soil will retain less water, because sand particles are larger and have larger pores, which allows water to drain quickly.**

4 (A) Cross out the odd word:

- Its color is yellow. / Its particles retain water. / Its particles are large in size. / It has high porosity.
(Its particles retain water.)

(B) Answer the following:

1 What is meant by convection?

- **It is the process in which heat transfers in liquids and gases, where hot molecules rise up while cold molecules fall down.**

2 Compare between air currents and wind.

Air currents	Wind
They are Vertical movements of air.	It is the Horizontal movement of air.

3 Arrange the following according to size of particles "in ascending order":

(sand soil – clay soil – silt soil)

- **Sand soil – Silt soil – Clay soil**

Model (4)

20
Marks

1 (A) Write the scientific term:

- It is the process in which matter changes from gaseous state to liquid state. (**Condensation**)

(B) Answer the following questions:

1 If you have two plants, one placed in the shade and the other in the sun, which plant transpires at a higher rate?

- **The plant that is exposed to the sun.**

2 Mention the factors affected by elevation above sea level.

1- **Atmospheric pressure**

2- **The air temperature**

3- **The air density**

3 List the factors that may affect the plant during photosynthesis process.

1- **Availability of water**

2- **Light intensity**

3- **Light duration**

4 Compare between organic materials and non-organic materials of the soil with giving examples.

Points of comparison	Organic materials	Inorganic materials
Definition	They are living components of the soil.	They are non-living components of the soil.
Examples	Plants – Insects	Minerals – Water

2 (A) Correct the underlined word:

- The cell nucleus helps in digestion. (**reproduction**)

(B) What is the meaning of...?

1 Transpiration process.

- **It is a type of evaporation that takes place through the stomata on the plant's leaves.**

2 Climate.

- **It is the expected state of the atmosphere over an extended period of time.**

3 Migration.

- **It is a type of behavioral adaptation in which living organisms migrate from one place to another.**

4 Soil.

- **It is the thin layer which covers the Earth's crust.**

Model (5)

20
Marks

1 (A) Choose the correct answer:

- Any ecosystem contains biotic factors such as

- a) **plants** b) air c) water d) soil

(B) Mention the importance of:

1 Rain gauge.

- **It is used to measure the amount of rainfall in a specific area.**

2 Convection currents.

- **They help in moving water vapor through the atmosphere, forming clouds, and determining the regional climate.**

3 Floods.

- **Some ecosystems depend on periodic floods, such as ecosystems along the Nile.**

4 Genes.

- **They carry the traits which are responsible for determining the body's features.**

2 (A) Complete the following sentence:

- **Condensation** and **freezing** processes occur as a result of water particles losing thermal energy.

(B) What happens when..?

1 A plant doesn't receive enough light in its environment.

- **The plant can't make photosynthesis process.**

2 Sanitation services are not available in the environment.

- **Spreading of different diseases will occur.**

3 The Earth's temperature increases. "relative to the effect on soil"

- **The soil dries up and loses its nutrients.**

4 Boiling water in a pot on the stove "concerning the movement of hot water and cold water".

- **The hot water moves up and cold water moves down.**

3 (A) Write the scientific term:

1 Spaces exist between soil particles and are filled with water or air.

(**Soil pores**)

2 Living organisms help in recycling nutrients from dead plants and animals back to the soil.

(**Decomposers**)

(B) Give a reason for:

- 1 Poison dart frog has colorful poisonous skin.
- **To hide from its enemies and protect itself.**
- 2 Large trees don't grow in grassland ecosystem.
- **Because grassland ecosystem has sand soil that is loose, drains water quickly and dry.**
- 3 Although volcanic eruptions have destructive effects, they may also have some benefits.
- **Because they make the soil fertile.**

4 (A) Correct the underlined words:

- 1 Minerals are the building units of plants. (rocks)
- 2 In the water cycle, the step that follows condensation process is runoff process. (precipitation)

(B) Answer the following questions:

- 1 What is the difference between soil in bogs and desert in holding water?

Bogs soil	Desert soil
Clay soil holds water.	Sand soil drains water quickly.

- 2 Mention three ways to reduce water pollution.
 - 1- **Treatment of sewage.**
 - 2- **Keeping green areas.**
 - 3- **Using suitable amount of fertilizers.**
- 3 What is the meaning of Meteorology?
- **It is the science of studying and predicting the weather.**