

**PONY**

سلسلة كتب الأستاذ

**SCIENCE**

**March  
Revision**

**6<sup>th</sup>**  
**Junior  
Second Term**

**Prepared by:**

**Amira Ahmed**

### 1 Choose the correct answer:

- When heating equal amounts of sand and water, the water is heated ..... the sand.
  - faster than
  - slower than
  - similar to
  - no correct answer
- When holding a paper spiral over a lit lamp, the paper spiral .....
  - burns
  - doesn't spin
  - spins
  - no correct answer
- The ..... device is used to record the wind speed.
  - barometer
  - thermometer
  - weather radar
  - anemometer
- To determine the amount of rain falling, we use the .....
  - weather radar
  - rain gauge
  - barometer
  - weather balloon
- The ..... is used in determining the air pressure.
  - anemometer
  - rain gauge
  - barometer
  - weather balloon
- Warm air molecules move .....
  - backward
  - downward
  - forward
  - upward
- Sandstorms occur in ..... regions.
  - polar
  - coastal
  - desert
  - ice
- All of the following are flood damages, except .....
  - moderate weather
  - livestock drowning
  - damaging buildings
  - disrupting the economy
- The drought occurs due to the .....
  - moderate temperature
  - high temperature
  - low temperature
  - both a and c



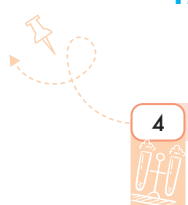




- 7. The spinning of the paper spirals over a turned-off lamp indicates the occurrence of convection currents. ( )
- 8. Water loses its heat slower than sand. ( )
- 9. The anemometer is used in determining the air pressure. ( )
- 10. Heavy rain causes the destruction of ecosystems. ( )
- 11. Drought is the rise of water level above the riverbank. ( )
- 12. One of the negative effects of sandstorms is that dust fills the irrigation canals, affecting water quality. ( )
- 13. One of the drought causes is the severe decrease in the temperature. ( )
- 14. Floods occur as a result of very dry sandstorms. ( )
- 15. Humidity percentage and wind speed are from weather elements. ( )
- 16. The density of warm air increases because its molecules expand. ( )

**3 Complete the following sentences:**

- 1. Meteorologists use ..... to track thunderstorms and hurricanes.
- 2. The ..... device is used in determining the air pressure.
- 3. One of the negative effects of drought is that .....
- 4. The reasons of flood occurrence are ..... or .....
- 5. In the data analysis stage, we use ..... to represent data and share information.
- 6. Sandstorms occur in the ..... areas.
- 7. One of the causes of droughts is .....
- 8. One of the difficulties that faces farming in the deserts is the .....
- 9. Rain may fall down in a form of ....., ....., and .....
- 10. Warm air molecules rise up, while cold air molecules fall down as a result of .....
- 11. .... occurs due to the sudden melting of ice.
- 12. .... occur due to an extreme increase in the temperature and lack of water.





13. \_\_\_\_\_ can build up on solar panels as a result of storms, causing power disruptions.

**4 Write the scientific term:**

1. It is the severe shortage of water available in an area. ( ..... )
2. They are strong winds that carry sand and dust, blowing up from extremely dry areas. ( ..... )
3. He is a scientist who uses a variety of tools to study and predict the weather. ( ..... )
4. It occurs when the water level increases over the edge of a riverbank and flows onto the lands around the river. ( ..... )
5. It is the weather condition in a long period of time. ( ..... )
6. It is a phenomenon that occurs when wind blows over a mountain's chains. ( ..... )
7. It is a device used in tracking hurricanes and storms. ( ..... )
8. It is the amount of water vapor existing in air. ( ..... )
9. It is a device used in determining air pressure. ( ..... )

**5 Give reasons for:**

1. Snowfall occurs in some places.  
.....  
.....
2. Weather forecasting is difficult and meteorologists may not be able to make accurate predictions.  
.....  
.....
3. The paper spirals spin over a turned-on lamp.  
.....  
.....  
.....
4. The dangers of flooding increase if the land is frozen.  
.....





5. Snow forms at the top of a mountain but it is still liquid at the bottom of the same mountain.

.....

6. Plants grow slowly in the windless area of the mountain.

.....

7. Air pressure decreases at the top of mountains.

.....

8. It is suitable to cultivate in the mountain on the side facing the wet air.

.....

**6 What happens:**

1. If a lit lamp is placed 5 cm away from a beaker containing sand and another beaker containing the same amount of water? (In terms of which one heats up faster)

.....

2. When you place a paper spiral over a turned-off lamp?

.....

3. To sand and water at night after they are exposed to sunlight at the day?

.....

4. To sand and water at the day after they are exposed to sunlight?

.....

5. If the ice melts suddenly?

.....

6. If the weather is dry for a long time?

.....

7. If dust accumulates (builds up) over solar panels?

.....

**7 Answer the following questions:**

1. What are the main stages (processes) of the water cycle in nature?

.....





2. Mention the three main stages that meteorologists follow to study weather forecast.

.....

.....

.....

3. What is the result of the severe decrease in temperature in some places?  
(In terms of precipitation)

.....

.....

4. Explain methods that farmers created to overcome desert soil.

.....

.....

.....

.....

.....

5. A farmer noticed heavy rainfall on his farm and he wanted to determine the amount of rain in this area. What device is used for that?

.....

.....

6. What is the reason for the occurrence of sandstorms?

.....

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7. Mention the negative effects of sandstorms.

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8. Mention the negative effects of flooding.

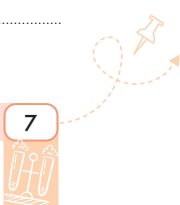
.....

.....

9. Mention the effects of drought.

.....

.....



### 1 Choose the correct answer:

- Which of the following is not considered from the abiotic factors?  
a. Light                      b. Water                      c. Temperature                      d. Plants
- The behavioral adaptations include .....  
a. thick skin                      b. fur  
c. long ears                      d. bird migration
- Which of the following does not help plants survive in desert environments?  
a. Their thorns                      b. Their thick roots  
c. Excessive transpiration                      d. Their small leaves
- The adaptation of living organisms with the environment leads to .....  
a. their extinction                      b. their survival  
c. their population decrease                      d. their migration
- The ..... help(s) the cell to build genetic information between generations.  
a. nucleus                      b. mitochondria                      c. chloroplasts                      d. vacuoles
- The ..... traits control the shape of the cat's pointed ear.  
a. environmental                      b. abiotic                      c. genetic                      d. living
- Some plants, such as ....., bear fruits when the daytime is shorter than the nighttime.  
a. chrysanthemum                      b. cactus  
c. herbaceous plants                      d. flowering plants
- The Birman cat belongs to the .....  
a. wild cats                      b. domestic cats  
c. Pharaoh cats                      d. desert cats
- All of the following are behavioral adaptations, except .....  
a. migration                      b. living in burrows  
c. the thorns on plants' leaves                      d. photosynthesis in plants



10. All of the following are structural adaptations, except the .....
- |                                 |                                |
|---------------------------------|--------------------------------|
| a. size of the plants' leaves   | b. direction of plants' growth |
| c. thorns on the plants' leaves | d. stem length                 |
11. All of the following are lifestyles, except .....
- |            |                        |
|------------|------------------------|
| a. smoking | b. healthcare services |
| c. diet    | d. exercise            |

## 2 Put (✓) or (X):

- The color of the fur is considered a structural adaptation. ( )
- The size of an organism's natural habitat does not affect its growth. ( )
- The size of a living organism is one of the traits that is not affected by the genetic factors. ( )
- The body of the emperor penguin is covered with a thin layer of skin to overcome the low temperature. ( )
- The unhealthy environment positively affects human life. ( )
- Height and skin color are considered abiotic factors that affect human life. ( )
- Following a diet is one of the life choices that influence human growth. ( )
- Light is considered a hereditary factor influencing the life of plants and animals. ( )
- The Sphinx cat is characterized by its abundant fur. ( )

## 3 Complete the following sentences:

- Air is considered one of the ..... factors.
- Palm trees adapt to the ..... of water in the desert.
- Fish migration is considered one of the ..... adaptations.
- From the environmental factors affecting living organisms are ..... and .....
- The ..... adaptation of the organism is related to its body structure.
- The thorns on the stems of some plants are considered ..... adaptations.
- The leaves of plants in the Western Desert are .....
- ..... is one of the reasons for birds returning to their habitat.
- The ..... plant grows when the daytime is shorter than the nighttime.



- 10. Light is considered one of the ..... factors.
- 11. The factors that influence the formation of the human internally and externally are ....., ....., and .....
- 12. The Sphinx cat and the Birman cat belong to the ..... cats.
- 13. The ..... of the cell carries the genetic genes.
- 14. The survival of living organisms despite difficult conditions is related to the ..... factors.

**4 Write the scientific term:**

- 1. It is the seasonal migration of animals from one place to another and is considered a behavioral adaptation. ( ..... )
- 2. It is a process in which a living organism is able to live in a way that enables it to survive. ( ..... )
- 3. They are factors that determine the structure and characteristics of a living organism and are passed from parents to offspring. ( ..... )
- 4. They are the living organisms in the ecosystem, such as plants and animals. ( ..... )
- 5. It is a behavior or an act performed by a living organism to survive. ( ..... )
- 6. It is an environmental factor that affects plant growth and food formation. ( ..... )
- 7. They are plants that give fruits when the days are longer than the nights. ( ..... )
- 8. They have the information that is transmitted from the cell nucleus to the next generations. ( ..... )
- 9. They have the information and traits that determine the characteristics of a living organism and are passed from parents to offspring. ( ..... )
- 10. It is a plant that grows faster when the daytime is shorter than the nighttime. ( ..... )
- 11. It is an organelle in the cell that is responsible for reproduction and the construction of cell-specific information. ( ..... )





**5 Give reasons for:**

1. Plants manage to adapt to warm and dry climates.

.....  
.....  
.....

2. Birds migrate at different times of the year.

.....  
.....

3. The variation in length and smoothness of the fur of cats of the same kind.

.....

4. Some plants have shallow, short roots.

.....

**6 What happens if:**

1. The poison dart frog doesn't have big eyes?

.....

2. Light is absent for plant growth?

.....

3. The Arctic fox does not have thick fur?

.....

4. The plant is exposed to intense sunlight for a long time?

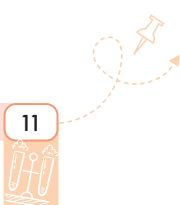
.....

5. A green plant is placed away from a source of sunlight (in terms of growth direction)?

.....

6. There are no healthcare services available in some places?

.....





**7 Answer the following questions:**

1. Mention the different environmental factors that help living organisms survive.

.....  
.....

2. How do genetic factors affect the growth of living organisms?

.....  
.....  
.....

3. How can the Dorcas gazelle camouflage in the desert?

.....  
.....

4. Identify some traits of a living organism that are determined by genetic factors.

.....  
.....  
.....

5. Explain the reasons for bird migration.

.....  
.....  
.....  
.....

6. Explain: It was found that the children have the same eye color as the father.

.....  
.....

7. Identify the type of factor (genetic – environmental – lifestyle):

- a. Smoking practice .....
- b. Availability of hospitals .....
- c. Length of the fingers .....

8. Why do some plants have long roots?

.....





**8** Compare between the Sphinx cat and the Birman cat, in terms of: the hair and kind.

P.O.C	Sphinx Cat	Birman Cat
a. Hair	..... ..... ..... .....	..... ..... ..... .....
b. Kind	..... .....	..... .....



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### 1 Choose the correct answer:

- When heating equal amounts of sand and water, the water is heated ..... the sand.  

a. faster than	<b>b. slower than</b>
c. similar to	d. no correct answer
- When holding a paper spiral over a lit lamp, the paper spiral .....  

a. burns	b. doesn't spin
<b>c. spins</b>	d. no correct answer
- The ..... device is used to record the wind speed.  

a. barometer	b. thermometer
c. weather radar	<b>d. anemometer</b>
- To determine the amount of rain falling, we use the .....  

a. weather radar	<b>b. rain gauge</b>
c. barometer	d. weather balloon
- The ..... is used in determining the air pressure.  

a. anemometer	b. rain gauge
<b>c. barometer</b>	d. weather balloon
- Warm air molecules move .....  

a. backward	b. downward	c. forward	<b>d. upward</b>
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- Sandstorms occur in ..... regions.  

a. polar	b. coastal	<b>c. desert</b>	d. ice
----------	------------	------------------	--------
- All of the following are flood damages, except .....  

<b>a. moderate weather</b>	b. livestock drowning
c. damaging buildings	d. disrupting the economy
- The drought occurs due to the .....  

a. moderate temperature	<b>b. high temperature</b>
c. low temperature	d. both a and c





7. The spinning of the paper spirals over a turned-off lamp indicates the occurrence of convection currents. (X)
8. Water loses its heat slower than sand. (✓)
9. The anemometer is used in determining the air pressure. (X)
10. Heavy rain causes the destruction of ecosystems. (✓)
11. Drought is the rise of water level above the riverbank. (X)
12. One of the negative effects of sandstorms is that dust fills the irrigation canals, affecting water quality. (✓)
13. One of the drought causes is the severe decrease in the temperature. (X)
14. Floods occur as a result of very dry sandstorms. (X)
15. Humidity percentage and wind speed are from weather elements. (✓)
16. The density of warm air increases because its molecules expand. (X)

**3 Complete the following sentences:**

1. Meteorologists use weather radar to track thunderstorms and hurricanes.
2. The barometer device is used in determining the air pressure.
3. One of the negative effects of drought is that the water is not enough for farming and industry.
4. The reasons of flood occurrence are heavy rains or sudden melting of ice.
5. In the data analysis stage, we use weather maps to represent data and share information.
6. Sandstorms occur in the dry desert areas.
7. One of the causes of droughts is extreme hot weather.
8. One of the difficulties that faces farming in the deserts is the little amount of rainfall.
9. Rain may fall down in a form of water droplets, ice crystals, and sleet.
10. Warm air molecules rise up, while cold air molecules fall down as a result of convection currents.
11. Flooding occurs due to the sudden melting of ice.
12. Droughts occur due to an extreme increase in the temperature and lack of water.

13. **Dust** can build up on solar panels as a result of storms, causing power disruptions.

**4 Write the scientific term:**

1. It is the severe shortage of water available in an area. (**Drought**)
2. They are strong winds that carry sand and dust, blowing up from extremely dry areas. (**Sandstorms**)
3. He is a scientist who uses a variety of tools to study and predict the weather. (**Meteorologist**)
4. It occurs when the water level increases over the edge of a riverbank and flows onto the lands around the river. (**Flood**)
5. It is the weather condition in a long period of time. (**Climate**)
6. It is a phenomenon that occurs when wind blows over a mountain's chains. (**Rain shadow**)
7. It is a device used in tracking hurricanes and storms. (**Weather radar**)
8. It is the amount of water vapor existing in air. (**Humidity**)
9. It is a device used in determining air pressure. (**Barometer**)

**5 Give reasons for:**

1. Snowfall occurs in some places.  
**Because when the air in the clouds is cold enough, the water droplets in the clouds change into ice.**
2. Weather forecasting is difficult and meteorologists may not be able to make accurate predictions.  
**Because some unexpected quick changes in weather conditions may occur.**
3. The paper spirals spin over a turned-on lamp.  
**Because the air particles over the lamp are heated and become less dense, so they rise up, allowing the cooler and denser air particles to move downward, creating a convection current that spins the paper spiral.**
4. The dangers of flooding increase if the land is frozen.  
**Because the frozen ground cannot absorb water.**



5. Snow forms at the top of a mountain but it is still liquid at the bottom of the same mountain.

**Because the temperature decreases as the height increases.**

6. Plants grow slowly in the windless area of the mountain.

**Due to the dry air and the little amount of rainfall.**

7. Air pressure decreases at the top of mountains.

**Because the weight of the air column decreases as the height increases.**

8. It is suitable to cultivate in the mountain on the side facing the wet air.

**Due to the precipitation of rain at this wet side, which allows plants to grow.**

**6 What happens:**

1. If a lit lamp is placed 5 cm away from a beaker containing sand and another beaker containing the same amount of water? (In terms of which one heats up faster)

**Sand will heat up faster than water.**

2. When you place a paper spiral over a turned-off lamp?

**The paper spiral will not spin.**

3. To sand and water at night after they are exposed to sunlight at the day?

**Sand cools off faster than water.**

4. To sand and water at the day after they are exposed to sunlight?

**Sand heats up and cools up faster than water .**

5. If the ice melts suddenly?

**Floods occur.**

6. If the weather is dry for a long time?

**Droughts occur.**

7. If dust accumulates (builds up) over solar panels?

**The solar panels stop generating electricity.**

**7 Answer the following questions:**

1. What are the main stages (processes) of the water cycle in nature?

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

2. Mention the three main stages that meteorologists follow to study weather forecast.

**1- Collecting data**

**2- Analyzing data**

**3- Putting it all together**

3. What is the result of the severe decrease in temperature in some places?  
(In terms of precipitation)

**The water droplets in the clouds will change into ice crystals and fall in the form of snow.**

4. Explain methods that farmers created to overcome desert soil.

**1. They improve soil quality.**

**2. They irrigate crops by reusing water.**

**3. They grow crops that are able to withstand the heat and low-fertility soil.**

**4. They use solar energy or wind turbines to power farms.**

5. A farmer noticed heavy rainfall on his farm and he wanted to determine the amount of rain in this area. What device is used for that? **Rain gauge**

6. What is the reason for the occurrence of sandstorms?

**Sandstorms occur when very strong wind blows up sand or dust from a dry area, such as a desert.**

7. Mention the negative effects of sandstorms.

**1. Dust reduces visibility for drivers and motorists, which increases accidents.**

**2. Dust harms the human eye and the human respiratory system.**

**3. Dust can fill irrigation canals and decrease water quality.**

**4. Dust damages airplanes engines.**

8. Mention the negative effects of flooding.

**1- Damage of buildings by moving or breaking them**

**2- Drowning of people and animals**

9. Mention the effects of drought.

**Shortage of water for people, animals, and plants**

### 1 Choose the correct answer:

- Which of the following is not considered from the abiotic factors?  
a. Light                      b. Water                      c. Temperature                      **d. Plants**
- The behavioral adaptations include .....  
a. thick skin                      b. fur  
c. long ears                      **d. bird migration**
- Which of the following does not help plants survive in desert environments?  
a. Their thorns                      b. Their thick roots  
**c. Excessive transpiration**                      d. Their small leaves
- The adaptation of living organisms with the environment leads to .....  
a. their extinction                      **b. their survival**  
c. their population decrease                      d. their migration
- The ..... help(s) the cell to build genetic information between generations.  
**a. nucleus**                      b. mitochondria                      c. chloroplasts                      d. vacuoles
- The ..... traits control the shape of the cat's pointed ear.  
a. environmental                      b. abiotic                      **c. genetic**                      d. living
- Some plants, such as ....., bear fruits when the daytime is shorter than the nighttime.  
**a. chrysanthemum**                      b. cactus  
c. herbaceous plants                      d. flowering plants
- The Birman cat belongs to the .....  
a. wild cats                      **b. domestic cats**  
c. Pharaoh cats                      d. desert cats
- All of the following are behavioral adaptations, except .....  
a. migration                      b. living in burrows  
**c. the thorns on plants' leaves**                      d. photosynthesis in plants





10. Light is considered one of the **abiotic** factors.
11. The factors that influence the formation of the human internally and externally are **lifestyle choices**, **environmental factors**, and **genetic factors**.
12. The Sphinx cat and the Birman cat belong to the **Felis catus** cats.
13. The **nucleus** of the cell carries the genetic genes.
14. The survival of living organisms despite difficult conditions is related to the **genetic** factors.

**4 Write the scientific term:**

1. It is the seasonal migration of animals from one place to another and is considered a behavioral adaptation. **(Migration)**
2. It is a process in which a living organism is able to live in a way that enables it to survive. **(Adaptation)**
3. They are factors that determine the structure and characteristics of a living organism and are passed from parents to offspring. **(Genetic factors)**
4. They are the living organisms in the ecosystem, such as plants and animals. **(Biotic factors)**
5. It is a behavior or an act performed by a living organism to survive. **(Behavioral adaptation)**
6. It is an environmental factor that affects plant growth and food formation. **(Light)**
7. They are plants that give fruits when the days are longer than the nights. **(Flowering plants)**
8. They have the information that is transmitted from the cell nucleus to the next generations. **(Genes)**
9. They have the information and traits that determine the characteristics of a living organism and are passed from parents to offspring. **(Genes)**
10. It is a plant that grows faster when the daytime is shorter than the nighttime. **(Chrysanthemum plant)**
11. It is an organelle in the cell that is responsible for reproduction and the construction of cell-specific information. **(Nucleus)**



## 5 Give reasons for:

1. Plants manage to adapt to warm and dry climates.

**Because they have structural adaptations that help them adapt in the warm and dry weather, such as their thick stems and leaves to store water.**

2. Birds migrate at different times of the year.

**To search for the best conditions that help them reproduce and to find suitable new habitats.**

3. The variation in length and smoothness of the fur of cats of the same kind.

**Due to the genetic factors that pass from parents to offspring.**

4. Some plants have shallow, short roots.

**To absorb any available tiny droplets of water.**

## 6 What happens if:

1. The poison dart frog doesn't have big eyes?

**It will be difficult for it to avoid predators or to locate preys.**

2. Light is absent for plant growth?

**Plants cannot make the photosynthesis process and will die.**

3. The Arctic fox does not have thick fur?

**It cannot keep its body warm at low temperatures and cannot adapt and survive.**

4. The plant is exposed to intense sunlight for a long time?

**The parts of the plant will damage or dry and burn.**

5. A green plant is placed away from a source of sunlight (in terms of growth direction)?

**It will tend to grow toward the source of light.**

6. There are no healthcare services available in some places?

**The human health and growth will be negatively affected.**





**7 Answer the following questions:**

1. Mention the different environmental factors that help living organisms survive.

**The environmental factors that help living organisms survive are sunlight, air, water, food, and soil.**

2. How do genetic factors affect the growth of living organisms?

**Genetic factors determine the inherited traits that are transmitted from parents to offspring, such as length of the plant, color of the animal fur, and body size.**

3. How can the Dorcas gazelle camouflage in the desert?

**By using its fur color to hide from predators.**

4. Identify some traits of a living organism that are determined by genetic factors.

**1- The length of plants**

**2- The eye color of humans**

**3- The fur color of animals**

5. Explain the reasons for bird migration.

**- Birds migrate to search for:**

**1- The best conditions that help them reproduce.**

**2- Different food resources.**

**3- A suitable new habitat.**

6. Explain: It was found that the children have the same eye color as the father.

**Because they get the same gene of eye color from their father.**

7. Identify the type of factor (genetic – environmental – lifestyle):

- |                                     |                               |
|-------------------------------------|-------------------------------|
| <b>a. Smoking practice</b>          | <b>(Lifestyle choice)</b>     |
| <b>b. Availability of hospitals</b> | <b>(Environmental factor)</b> |
| <b>c. Length of the fingers</b>     | <b>(Genetic factors)</b>      |

8. Why do some plants have long roots?

**To reach the deep groundwater and absorb it.**



**8** Compare between the Sphinx cat and the Birman cat, in terms of: the hair and kind.

P.O.C	Sphinx Cat	Birman Cat
a. Hair	It doesn't have any hair or may have fine hair.	It has long, silky hair with different colors.
b. Kind	<i>Felis catus</i>	<i>Felis catus</i>



تم تحميل الملف من  
موقع وتطبيق مذكرات جاهزة  
[mozkratgahza.com](http://mozkratgahza.com)

