



ALADWANA

Gem



Science

الصف 5 الابتدائي

إجابات نماذج امتحانات الأضواء النهائية

الفصل الدراسي الثاني 2024 - 2025



**(B) Give a reason for:**

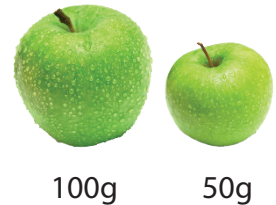
- 1 The Earth looks like a blue marble from space.  
– **Because about three-quarters (71) % of the Earth is covered by water.**
- 2 Occurrence of day and night.  
– **Due to the rotation of the Earth around its axis.**
- 3 In the abyssal zones of oceans, no green plants can survive.  
– **Because abyssal zones are very deep areas in oceans, so that sunlight cannot reach the plants.**

**4 (A) Mention an example for:**

- 1 Living organisms that live in seas and oceans: **Kelp, dolphins, starfish, and flounder (Moses fish).**
- 2 A freshwater body: **River - Stream**

**(B) Answer the following questions:**

- 1 What are the kinds of wetlands?  
– **From the kinds of wetlands are swamps (marshes) and ponds (bogs).**
- 2 How is groundwater formed?  
– **The water leaked into the Earth through a layer of porous rocks, so it lies beneath the Earth's surface.**
- 3 From the opposite figure, which apple will be attracted more by the Earth's gravity? Why?  
– **The apple whose mass is 100 g will be attracted more because the gravitational force increases by increasing the mass.**



## Model (2)

20  
Marks

### 1 (A) Correct the underlined word:

- When the amount of water upstream decreases, the amount of water downstream increases.  
(decreases)

### (B) Answer the following questions:

- 1 Water is an important natural resource on Earth. **Explain.**  
- **Water is important for life of living organisms. Humans and animals drink water to survive, plants use it during photosynthesis, some animals and plants live in it.**
- 2 How does an estuary is formed?  
- **It is formed when a river meets an ocean or a sea.**
- 3 What are the factors that affect gravity?  
- **The object's mass, and the distance between the objects.**
- 4 What are the factors that affect the length and the angle of a shadow?  
- **The position of the Sun in the sky.**  
- **The amount of sunlight that reaches the Earth's surface during different seasons.**

### 2 (A) Write the scientific term:

- An imaginary line passing through the North pole and South pole of Earth. (Earth's axis)

### (B) Give a reason for:

- 1 Fish and most aquatic animals can't survive in lake Assal.  
- **Because it has high concentration of natural salts.**
- 2 Farmers near tributaries may cause water pollution.  
- **Due to the using of chemical fertilizers that cause water pollution.**
- 3 The Earth's gravity is greater than the Moon's gravity.  
- **Because the Earth has greater mass than the Moon.**
- 4 In the early morning, objects have the longest shadow.  
- **Because the Sun is low in the sky (in the east).**

### 3 (A) Complete the following sentences using the words between brackets:

- 1 Gold is ..... resource on Earth. (an artificial - **a natural**)
- 2 The gravity of ..... affects the oceans tides. (**the Moon** - the Sun)

**(B) Define each of the following:**

- 1 Geosphere: **It is the system that includes rocks, minerals, soil, landforms, and molten rocks.**
- 2 Force: **It is a push or a pull that is applied to an object.**
- 3 Constellation: **It is a group of stars that forms a pattern or looks like a certain shape in the sky.**

**4 (A) Correct the underlined word:**

- In the full moon phase, the size of the illuminated part increases gradually overtime.

**(first crescent)**

**(B) Look at the opposite figure, then answer:**

- 1 The swimming of a child in a pool is an example of interaction between:  
- **biosphere** and **hydrosphere**.
- 2 The breathing of a child is an example of interaction between:  
- **biosphere** and **atmosphere**.
- 3 Mention an example that represents an interaction between hydrosphere and geosphere.  
- **Erosion of rocks by water.**    - **Formation of lakes.**





**3 (A) Write the scientific term:**

- 1 An area of land where water from different sources flow in one direction towards a common location. **(Watershed)**
- 2 A cycle that shows the continuous movement of water from the Earth to the atmosphere, then to the Earth again. **(Water cycle)**

**(B) Look at the opposite figures, then answer:**

- 1 Figure (1) represents the **solar system**, and the force that controls the revolution of the planets in fixed orbits is **the Sun's gravity**.
- 2 From figure (2), number (1) indicates **the Sun**, while number (2) indicates **– the Earth 's axis**.
- 3 From figure (2), number (4) is surrounded by the **atmosphere** and its function is **allowing some light waves to pass and blocks some other light waves**.



Fig. (1)

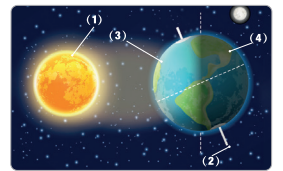


Fig. (2)

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

- 1 Prevent using of natural resources in Ras Mohammed Protectorate is considered as an example of ..... **(preservation – sustainability)**
- 2 The planets revolve around the Sun in ..... orbits. **(circular – elliptical)**

**(B) Give a reason for:**

- 1 Salamanders and salmon can't live in the same aquatic ecosystem.  
**– Because salamanders live in still water in ponds, while salmon lives in running water in rivers and streams.**
- 2 Air resistance affects the movement of an object when it falls from a height.  
**– Because it acts in the opposite direction of motion and slows down the speed of the falling object.**
- 3 The Sun looks much larger to us than other stars.  
**– Because it is the nearest star to us.**

## Model (4)

20  
Marks

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

- Marshes and ponds are examples of ..... (groundwater – **wetlands**)

### (B) Give a reason for:

1 Sustainability is more flexible than preservation.

- **Because during preservation, the usage of the resources is restricted, while during sustainability, the usage of the resources is managed without negative effects on their amounts in the future.**

2 The total amount of water on Earth doesn't change.

- **Because water changes from one state to another, so we can recycle it.**

3 The Sun is considered the center of motion of the solar system.

- **Because the Sun has the greatest mass in the solar system, so it has the greatest gravity.**

4 The Sun appears to rise from the east and set in the west.

- **Due to the revolution of the Earth around the Sun from the west to the east.**

### 2 (A) Put (✓) or (X):

- Air resistance opposes the direction of motion by exerting a pulling force on the moving object. (X)

### (B) What happens when ...?

1 When the amount of rainfall exceeds the level of the rivers.

- **The river can't hold the excess water and a flood occurs.**

2 Cutting down too many trees.

- **Deforestation occurs, so water and wind also may carry the soil causing soil erosion.**

3 We approach like poles of magnets to each other.

- **They will repel.**

4 Occurrence of seasons.

- **Due to the revolution of the Earth around the Sun.**

### 3 (A) Write the scientific term:

1 The area along the ocean between the high and low tides. (**Intertidal Zone**)

2 An imaginary line passing through the two poles of Earth. (**Earth's axis**)

**(B) Answer the following questions:**

1 Mention the function of water filters.

– They are used to remove harmful materials from polluted water to get filtered water that human can use in many purposes.

2 Give one difference between stars and moons.

– Stars make their own light, but moons don't make their own light, they seem bright as they reflect the sunlight that falls on them.

3 What is the function of telescopes and binoculars?

– They are tools that help us see distant objects in space in more details.

**4 (A) Choose the correct answer:**

1 The Earth spins around its axis once every .....

- a) 24 months      **b) 24 hours**      c) 30 days      d) 24 days

2 The fastest planet that rotates on its axis in the solar system is .....

- a) the Sun      b) Earth      **c) Jupiter**      d) the Moon

**(B) Compare between each of the following:**

1

P.O.C	Oceans and seas	Streams
Water Movement	Water moves in the form of waves that crash onto shores.	They have running water.
Living organisms that live in	Dolphin – Starfish	Catfish – Salmon (Trout)

2

P.O.C	Magnetism	Gravity
Types of force	Pushing and pulling force	Pulling force only

3

P.O.C	Full moon	New moon
Illuminated part of the Moon	The apparent face that faces the Earth is fully illuminated.	The apparent face that faces the Earth is fully darkened.

## Model (5)

20  
Marks

### 1 (A) Choose the correct answer:

- Birds stretch their wings as the ..... slows down their speed to land safely.

- a) friction force    **b) air resistance**    c) gravity    d) magnetism

### (B) What happens to ...?

1 The living organisms that live in a poor quality of fresh water.

- **The poor quality of fresh water causes the death or extinction of some species of fish and amphibians living in this water.**

2 The rate of rainfall on a river or stream decreases.

- **The water level will decrease, and they may dry up causing drought.**

3 When the mass of the Moon is doubled.

- **The gravitational force between the Moon and the Earth increases, so the Moon comes closer to the Earth and might crash into it.**

4 The Earth doesn't rotate around its axis.

- **The cycle of day and night will not happen.**

### 2 (A) Put (✓) or (X):

- Salt water represents 3.5% of water on Earth.

(X)

### (B) Give a reason for:

1 Overfishing has negative effects on oceans and seas.

- **Because fish is caught more than they are replaced by reproduction, so fish in oceans and seas become rare and fishing will decrease.**

2 Humans build dams on rivers.

- **To store, control, and conserve fresh water.**

3 Hiding of a worm inside the soil is an example of an interaction between two Earth's spheres.

- **Because the biosphere (worm) interacts with the geosphere (soil).**

4 Planetarium is an important building for space scientists.

- **Because they can see images of stars, planets, constellations, and other celestial bodies.**

### 3 (A) Complete the following sentences using the words between brackets:

1 The Earth consists of ..... main systems.

(three – **four**)

2 The new moon phase appears in the ..... day of the lunar month.

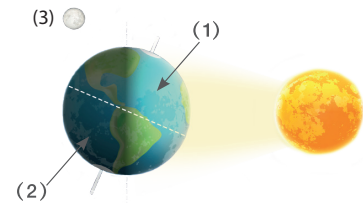
(first – **last**)

**(B) Answer the following questions:**

- 1 Classify the following components according to the sphere they belong to in the table below:  
- Water – Water vapor – Oxygen – Rocks – Wind – Carbon dioxide – Plant roots – Puddle  
- Elephant – Mosquito – Minerals – Rain – Soil.

Biosphere	Hydrosphere	Atmosphere	Geosphere
- Plant roots - Elephant - Mosquito	- Water - Rain - Puddle	- Water vapor - Oxygen - Wind	- Minerals - Rocks - Soil

- 2 Look at the opposite figure, then answer:  
- Side (2) is at **night time** because **this half faces away from the Sun.**  
- Side (1) is at **day time** because **this half faces the Sun.**



- 3 In the opposite figure, why does object (3) seem shiny at night?  
- **Because it reflects the sunlight falling on it.**

**4 (A) Cross out the odd word:**

- 1 Water – Animals – Plants – Human. (Water)  
2 Earth – Mars – The Sun – Jupiter. (The Sun)

**(B) Define each of the following:**

- 1 Tributaries: **They are small water bodies that flow into bigger rivers.**  
2 Friction: **It is the force that arises between two touching surfaces and slows down their motion.**  
3 Magnetism: **It is the force of attraction or repulsion between magnets or between a magnet and a magnetic object.**