



ALADWANA

Gem



Science

الصف 5 الابتدائي

إجابات نماذج اختبارات الأضواء لشهر إبريل

الفصل الدراسي الثاني 2024 - 2025

Model (1)

5
Marks

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

- 1 Air resistance acts in the direction of motion. (same – **opposite**)
- 2 The sun appears in the during the early morning. (**east** – west)

(B) Give a reason for:

- 1 The moon's gravity is less than the Earth's gravity.
- **Because the moon has less mass than the Earth.**
- 2 Occurrence of day and night.
- **Due to the rotation of the Earth around its axis.**

2 (A) Put (✓) or (X):

- 1 Magnetism is a pulling force only. (X)
- 2 All parts of Earth receive sunlight at the same time. (X)

(B) What happens when ...?

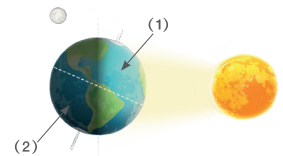
- 1 A feather and a hammer fall from the same height at the same time in a vacuumed room.
- **They will reach the ground at the same time.**
- 2 Half of Earth faces the Sun.
- **This half of Earth has day.**

3 (A) Which body does the Earth attract more "a body with a mass of 100 kg or another body with a mass of 400 kg? And why?

- **The Earth attracts the body with a mass of 400 kg more than the body with a mass of 100 kg.
Because the gravitational force increases between objects by increasing the mass.**

(B) Look at the opposite figure, then answer.

- Side (1) is at**day**..... , while side (2) is at**night**..... .



Model (2)

5
Marks

1 (A) Choose the correct answer:

1 Which of the following has the least gravity?

- a) The Earth. b) The Sun. **c) The moon.** d) A magnet.

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) Give a reason for:

1 Astronauts float in space.

- **Due to the absence of gravity in space.**

2 Occurrence of seasons.

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

2 (A) Write the scientific term:

1 The force that opposes the motion of a body across a solid surface or through a gas or liquid.

(**Friction**)

2 A series of events that is repeated in the same order.

(**Cycle**)

(B) What happens if ...?

1 The mass of the moon becomes twice its real mass.

- **The gravitational force between the Earth and the moon increases, and the moon would be pulled closer to the Earth and might crash into it.**

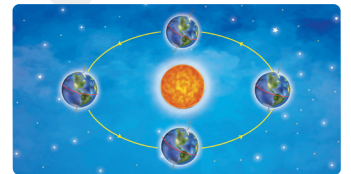
2 The Earth stops spinning on its axis.

- **The phenomenon of day and night will not occur.**

3 Look at the opposite figure, then answer:

1 This figure illustrates the cycle of (day and night – **the four season**) on Earth.

2 This figure represents the (rotation – **revolution**) of the Earth around the Sun.



Model (3)

5
Marks

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

- 1 The planets revolve around the Sun in orbits. (circular – **elliptical**)
2 The sun produces energy that warms the Earth. (light – **heat**)

(B) What happens if ...?

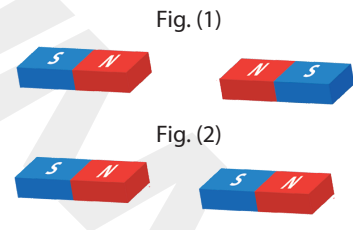
- 1 The sun loses its gravity.
- **The planets would fly off into space.**
- 2 Binoculars and telescopes were not invented.
- **Scientists can't study distant objects like stars.**

2 (A) Choose the correct answer:

- 1 Wind turbines move by the effect of
a) gravity b) magnetism **c) wind motion** d) friction
- 2 The star that is present in our solar system is
a) the moon **b) the sun** c) Earth d) Jupiter

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

- 1 The magnets in Figure (1) attract or repel, and why?
- **The magnets repel because they are like poles.**
- 2 The magnets in Figure (2) attract or repel, and why?
- **The magnets attract because they are unlike poles.**



3 Give a reason for:

- 1 When you stop pedaling, the speed of the bicycle decreases until it stops.
- **Due to the friction force between the tires and the ground in the opposite direction of motion.**
- 2 Stars seem to move in the sky.
- **Due to the rotation of the Earth around its axis.**

Model (4)

5
Marks

1 (A) Write the scientific term:

- 1 A fixed path where a planet revolves around the Sun. (Orbit)
- 2 It is a group of stars, planets, and gases held together by gravity. (Galaxy)

(B) What happens to ...?

- 1 The gravity of the moon when its mass decreases to half.
– Its gravity decreases to half.
- 2 The length of the shadow of an object at noon.
– The shortest shadow of the object is formed.

2 (A) Cross out the odd word:

- 1 A magnet attracts paper clips – A kid kicks a ball – An apple falls towards the ground –
The revolution of planets around the Sun (A kid kicks a ball)
- 2 Earth – Jupiter – The Sun – The moon. (The Sun)

(B) Give a reason for:

- 1 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.
- 2 The moon has different phases in the night sky.
– Due to the revolution of the moon around the Earth.

3 (A) What is meant by magnetism?

- It is an invisible force of attraction or repulsion between two magnets or a magnet and a magnetic material.

(B) Compare between:

The Sun	The moon
It is a star.	It is a dark body.
It produces its own light.	It reflects the sunlight that falls on it.

Model (5)

5
Marks

1 (A) Correct the underlined words:

- 1 The Sun affects the ocean tides. (The moon)
- 2 The Earth spins around its axis once every 28 hours. (24)

(B) Write the name of the moon phase for each of the following:

- 1 The apparent face of the moon that faces the Earth is fully darkened. (New moon)
- 2 The apparent face of the moon that faces Earth is fully illuminated. (Full moon)

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

- 1 The scientist Nicolaus Copernicus stated that the
(the moon revolves around the Earth – **the Earth revolves around the Sun**)
- 2 A constellation consists of a group of that form a pattern.
(**stars** – planets)

(B) Give a reason for:

- 1 A skydiver opens his parachute during landing.
– **Because the air resistance slows down their fall to the Earth's surface.**
- 2 The sun looks much larger to us than other stars.
– **Because it is the nearest star to us.**

3 (A) What are the factors that affect the gravitational force of the moving objects?

- **The mass of the object, the distance between the objects.**

(B) Define ...:

- Moon phases:
– **They are the different shapes of the illuminated part of the Moon as seen from Earth.**