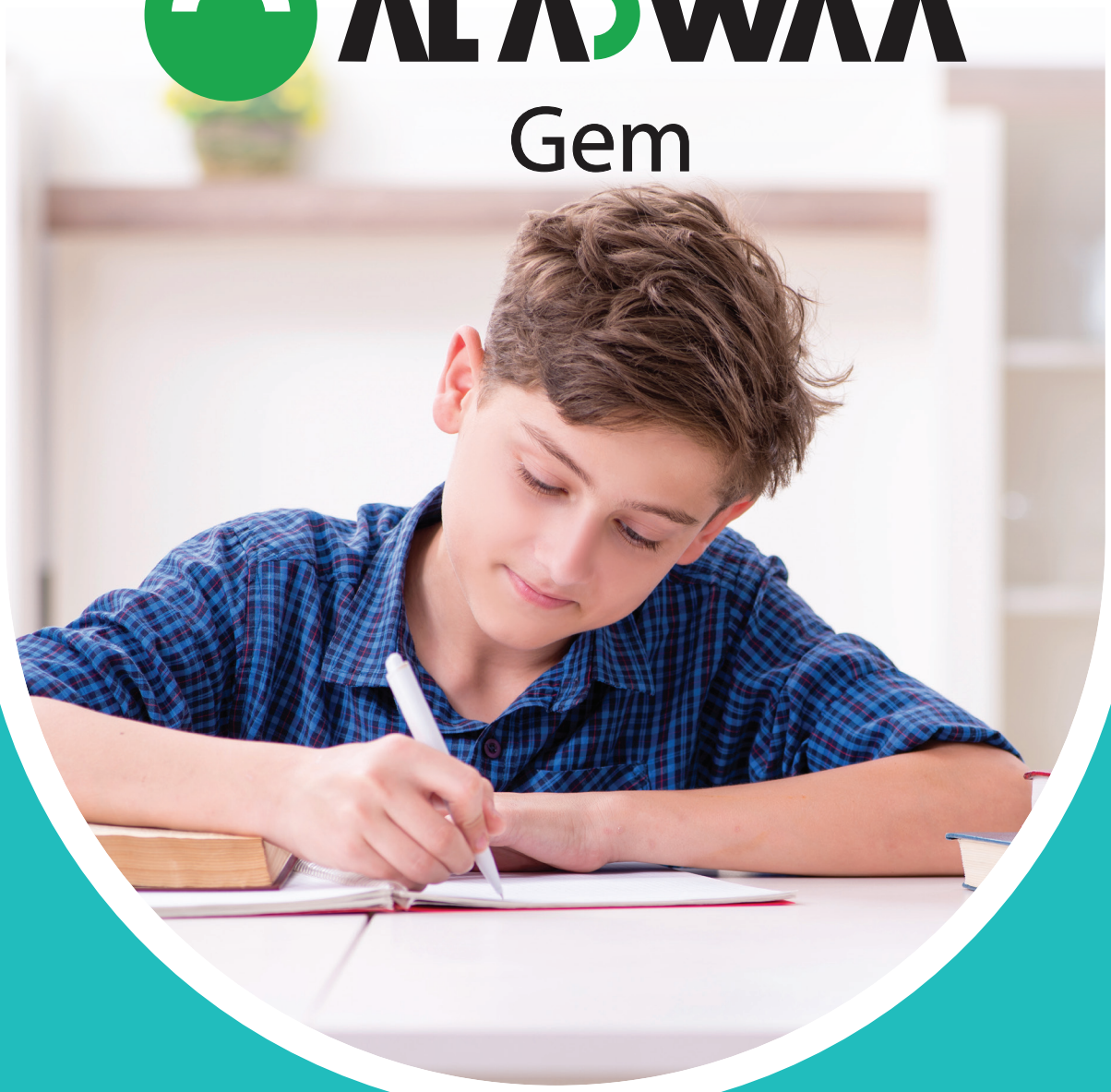
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Gem



Science

الصف 1 الإعدادى

النماذج الاسترشادية لشهر نوفمبر

العام الدراسى

2024 - 2025

Model (1)

15 Marks

1 A) Choose the correct answer:

1. The electrical charges that accumulate on the surfaces of some objects are known as ..... .
   a) electrical current
   b) current electricity
   c) electrostatic charges
   d) dielectric electricity
2. The natural magnet is one of the compounds of the ..... element.
   a) phosphate
   b) iron
   c) copper
   d) gold
3. ..... is considered a contact force.
   a) Electrostatic force
   b) Magnetic force
   c) Gravitational force
   d) Frictional force
4. When analyzing the biological processes occurring in the human body, it was found that they depend on the function of a group of ..... .
   a) systems
   b) organelles
   c) atoms
   d) molecules

B) Give a reason for:

Feeling a slight electric shock when touching a metal door handle after walking barefoot on a carpet.

- ..... .

2 A) Complete the following sentences:

1. Electrostatic charges are generated when objects are ..... with each other.
2. Materials are classified according to their ability to be attracted to magnet into ..... and ..... .
3. The Earth's gravitational force is represented by lines called ..... .
4. Tissues are composed of a group of ....., while systems are composed of a group of ..... .

B) The following table shows the number of pins attracted to four magnets placed at the same height from a container containing a load of pins:

Magnet	A	B	C	D
Number of pins attracted to it	4	6	2	8

Arrange these magnets ascendingly according to the strength of their magnetic field.

- ..... .

Model (2)

15 Marks

1 A) Choose the correct answer:

1. All of the following materials are bad conductors of electricity, except ..... .
   a) carbon b) air
   c) plastic d) rubber
2. The natural magnet has the ability to attract ..... .
   a) some metals b) some non-metals
   c) some noble gases d) all the previous answers
3. When a wooden rod is rubbed with a piece of wool, the charge on the piece of wool becomes ..... .
   a) positive b) negative
   c) neutral d) not charged
4. The most distinguishing feature of the muscle cell is ..... .
   a) its fibers are long and fast-conducting b) its fibers can contract and relax
   c) its fibers are short and broad d) it contains no fibers

B) Give a reason for:

The formation of black holes in the space.

- ..... .

2 A) Put (✓) or (X):

1. Iron is considered a material that can conduct electricity. ( )
2. Magnetic forces are invisible forces that affect certain metallic objects. ( )
3. Gravitational force exists only between the Earth and objects within its gravitational field. ( )
4. In the bean plant, the genetic material is surrounded by a nuclear membrane that separates it from the cytoplasm. ( )

B) Cross out the odd word:

- Lion - Fava bean - Mushroom - Bacteria (.....)

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Model (3)

15 Marks

1 A) Choose the correct answer:

1. Electrostatic charges can be generated on the surface of a/an ..... rod when it rubs with a piece of wool.

   a) copper b) iron c) ebonite d) carbon

2. The magnetic attraction is strongest at ..... .

   a) the midpoint b) the North Pole c) the South Pole d) the two poles

3. The ..... acts on objects at a certain distance.

   a) electric field b) magnetic field

   c) gravitational field d) all the previous answers

4. Bean is a ..... organism, while paramecium is a ..... organism.

   a) unicellular - multicellular b) multicellular – unicellular

   c) prokaryote – eukaryote d) prokaryote – prokaryote

B) Mention the importance of:

Electroscope.

- ..... .
- ..... .
- ..... .

2 A) Write the scientific term:

1. The measuring unit of electric charge. (.....)
2. A tool used to determine the four geographical directions. (.....)
3. The motion resulting from the gravitational attraction between any object orbiting in a curved path in space around another central object. (.....)
4. The arrangement of living organisms into groups based on similarities and differences. (.....)

B) Mention the properties of the magnetic force lines:

- ..... .
- ..... .
- ..... .

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Model (4)

15 Marks

1 A) Choose the correct answer:

1. When a carbon rod is rubbed with dry silk, no electrostatic charge is generated on the carbon rod. What is the reason for this? ..... .
   a) Carbon precedes silk in the electrostatic series
   b) Silk precedes carbon in the electrostatic series
   c) Silk is a non-conducting material
   d) The carbon rod is not insulated
2. Magnetic force lines ..... .
   a) attract each other
   b) repel each other
   c) touch each other
   d) collide
3. Gravitational force causes all objects to fall toward ..... .
   a) the space
   b) the center of the Earth
   c) the motion of objects
   d) all the previous answers
4. All of the following have specialized cells, except ..... .
   a) beans
   b) yeast
   c) corn
   d) lion

B) What happens when ...?

An object whose weight on Earth is 60 N is placed on the moon. (Regarding its mass and weight).

- ..... .

2 A) Correct the underlined words:

1. The Hoffman voltmeter can distinguish between positive and negative charges. (.....)
2. The magnetic field is stronger at the middle of the magnet. (.....)
3. The mass of an object on the Moon is greater than its mass in the outer space. (.....)
4. Unicellular organisms can be seen with the naked eye. (.....)

(B) Classify the following organisms:

1. Amoeba: (.....)
2. Bread mold fungus: (.....)

Model (5)

15 Marks

1 A) Choose the correct answer:

1. To generate a positive charge on a piece of wool, it must be rubbed with a piece of ..... .

   a) synthetic leather b) cotton

   c) leather d) silk

2. The compass box can be made from ..... .

   a) plastic b) copper

   c) gold d) plastic and copper

3. Mass is measured in ..... .

   a) N b) kg

   c) kg/N d) N/kg

4. Both plant cells and animal cells are characterized by the presence of ..... .

   a) cell wall and nucleus b) cytoplasm and plasma membrane

   c) plasma membrane and cell wall d) centrosome and cytoplasm

B) Give a reason for:

The object's mass doesn't change by changing the place.

- ..... .

2 A) Complete the following sentences:

1. Electric charges are of two types ..... and ..... .
2. The ancient Greeks discovered magnet in a region called ..... .
3. Gravity ..... by increasing height.
4. ..... are used to detect unicellular organisms.

B) Define:

Eukaryotes.

- ..... .