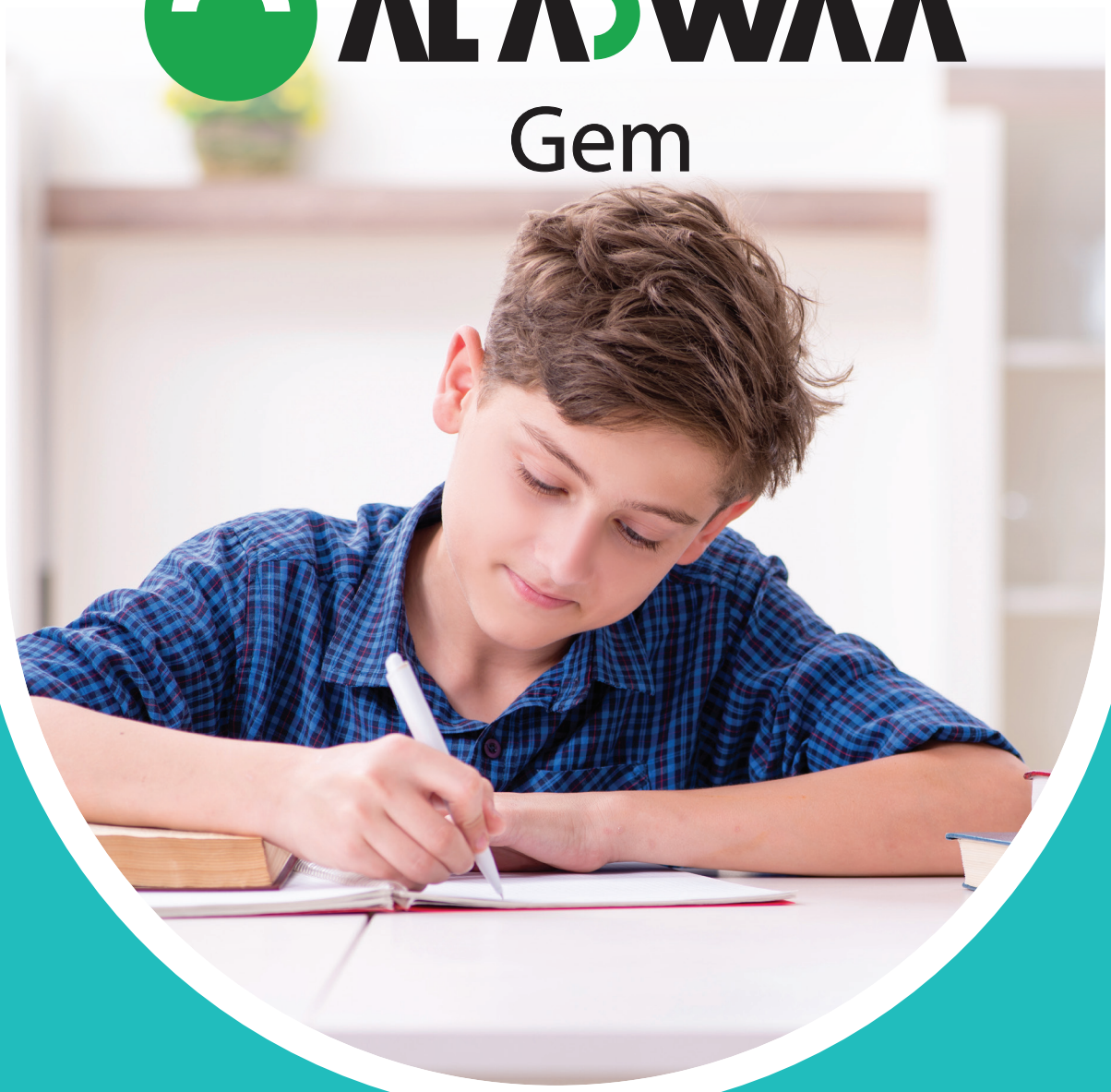
ALAWAA

Gem



Science

الصف 1 الإعدادى

نماذج امتحانات الأضواء النهائية

الفصل الدراسى الثانى

2024 - 2025

Model (1)

24 Marks

1 (A) Complete the following sentences:

1. The chromosome consists of two strands, each one is called a ..... connected at the .....
2. The crystals of basalt rock are ..... in size, while the crystals of granite rock are ..... in size.

(B) Give a reason for:

1. The bronze alloy is used in making statues instead of copper.

.....

2. The presence of sharp canines in carnivorous animals.

.....

3. Litmus strip is not suitable for distinguishing between strong acids and weak acids.

.....

4. The potential energy of an object gradually decreases as it falls down.

.....

2 (A) Choose the correct answer:

1. Which of the following pH values represents the weakest acid?

a) 12 b) 7 c) 5 d) 2

2. Any food chain consists of several trophic levels. The first level is occupied by .....

a) consumers b) producers c) predators d) decomposers

(B) What happens when ...?

1. Increasing the speed of a moving object to double its original speed.

.....

2. Adding a molten metal to another molten metal.

.....

3. Decreasing food sources in a certain environment.

.....

4. Differences in the arrangement of nucleotides on DNA.

.....

.....

Gem

3 (A) Write the scientific term:

1 The process of water loss from a plant in the form of water vapor. (.....)

2 The sum of potential and kinetic energy of any object. (.....)

(B) 1 What is the importance of ...?

pH meter device

.....

Graphite

.....

2 Mention the food relationships between the following living organisms.

(1) Lion and zebra. (.....)

(2) Bee and flower. (.....)

4 (A) Cross out the odd word, then mention the relation between the rest:

1 Hardness – Luster – Brittleness –Electrical – conductivity

(.....)

2 Limestone – Pumice stone – Sandstone – Claystone

(.....)

(B) 1 What is the use of ...?

Bronze alloy: .....

Milk of magnesia: .....

2 Compare between each of the following:

(1) Solubility of Silver Chloride and Sodium Chloride in Water.

Silver Chloride	Sodium Chloride
.....	.....

(2) Marble and Granite "in terms to the type of rock".

Marble	Granite
.....	.....

Model (2)

24 Marks

1 (A) Put (✓) or (✗):

1 The kinetic energy of an object at rest is equal to zero. ( )

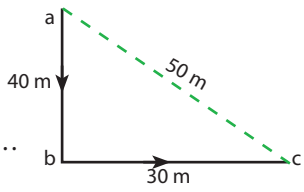
2 The nutritional relationship between plover bird and Nile crocodile is a commensalism relationship ( )

(B) 1 Mention one example of each of the following:

(1) Liquid non-metal element. (.....)

(2) A predator plant. (.....)

(B) 2 The opposite figure represents an object moving from point (A) to point (C) passing through point (B). Find:



(1) The distance: .....

(2) The displacement:.....

2 (A) Cross out the odd word:

1 Kinetic energy – Mass – Height – Speed. (.....)

2 Oxygen – Carbon – Nitrogen – Sodium. (.....)

(B) 1 What happens when ...?

(1) Freezing of water in rock cracks.

.....

(2) The time taken to cover a certain distance decreases "relative to the speed of the object".

.....

2 What is the difference between ...?

(1) Evaporation process and boiling process.

Evaporation	Boiling
.....	.....

(2) Spontaneous mutation and induced mutation.

Spontaneous mutations	Induced mutations
.....	.....

3 (A) Complete the following:

1. Sulfur trioxide is ..... oxide, while calcium oxide is ..... oxide.
2. ..... occupy the base of the energy pyramid, while ..... occupies the apex of the energy pyramid.

(B) 1 What is the importance of ...?

(1) Dotted beetles.

.....

(2) Incisors in herbivorous animals.

.....

2 Write the chemical formula for each of the following:

(1) Nitric acid: (.....)

(2) Calcium hydroxide: (.....)

4 (A) Choose the correct answer:

1. If the temperature of the clouds is below the freezing point, it results in ..... .

a) rainfall b) snowfall c) storms d) cloud evaporation

2. The number of chromosomes in maize (corn) cells is ..... .

a) 32 b) 20 c) 46 d) 4

(B) Give a reason for:

1. Sedimentary rocks are characterized by being porous.

.....

2. The mechanical energy of a body remains constant during its fall although the decrease in its potential energy.

.....

.....

.....

3. A person may be born with a hand that has six fingers.

.....

4. Hydrogen gas (H_2) and chlorine gas (Cl_2) can be distinguished using litmus strips.

.....

.....

Model (3)

24 Marks

1 (A) Complete the following:

1. ..... is the only non-metal element that is a good conductor of electricity, and it is used in the manufacture of dry cells.
2. A spider weaving its web is ..... while learning languages is ..... trait.

(B) 1 A body with a weight of 20N at a height of 5 m, and its kinetic energy is 60 J.

Calculate:

(1) Its potential energy .....

(2) The mechanical energy .....

2 Compare between each of the following:

(1) Acids and Alkalis "in terms of the effect on litmus paper".

Acids	Alkalis
.....	.....

(2) Mechanical weathering and chemical weathering "in terms of their definition".

Mechanical weathering	Chemical weathering
.....	.....
.....	.....

2 (A) Choose the correct answer:

1. Metamorphic rocks are formed through the processes of ..... .
   a) melting and crystallization
   b) transportation and deposition
   c) heat and pressure
   d) erosion and weathering
2. All of the following are properties of non-metals, except ..... .
   a) brittle
   b) do not conduct electricity
   c) all are solid elements
   d) poor conductors of heat

(B) 1 What happens when ...?

(1) Throwing a body upwards "in relation to potential and kinetic energy".

.....

(2) Exposure of tropical regions to vertical sunlight.

.....

.....

2 What is the importance of ...?

(1) Universal indicator strip.

.....

.....

(2) The High Dam. .....

3 (A) Write the scientific term:

1 A change in the nature of a gene that occurs spontaneously, leading to a change in the genetic trait controlled by the gene. (.....)

2 The change of a matter from the gaseous state to the liquid state by losing heat.

(.....)

(B) 1 Classify the following into "inherited trait – acquired trait – instinctive behavior":

Breastfeeding	.....
Eye color	.....
Drawing skills	.....

2 A force of 50 N was applied to a stationary object, causing it to move a displacement of 3 m in the same direction of the force. Calculate the amount of work done.

.....

4 (A) Put (✓) or (✗):

1 There are no food relationships between living organisms. ( )

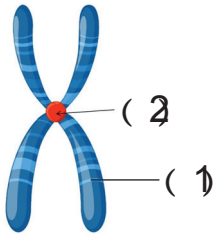
2 Evaporation requires the losing of heat from water. ( )

(B) 1 Look at the opposite figure, then answer:

(1) This figure represents the .....

(2) Write the labels on this figure:

1..... 2 .....



2 Name the following compounds:

(1) H_2SO_4 : .....

(2) NaOH : .....

Model (4)

24 Marks

1 (A) Complete the following sentences:

1. Plants are examples of ..... , while fungi are examples of .....
2. Weight is measured in ..... , while work is measured in .....

(B) 1 What happens when ...?

(1) The mass of a body is doubled and its speed is reduced to half "concerning its kinetic energy".

.....

(2) A litmus strip is dipped in NaOH solution.

.....

2 Give one example for each of the following:

(1) An organism that occupies the base of the energy pyramid. (.....)

(2) A neutral salt solution. (.....)

2 (A) Choose the correct answer:

1. Which of the following gases turn red litmus strip into blue when it is wetted with water?

a) Chlorine. b) Ammonia.

c) Carbon dioxide gas. d) Sulphur trioxide.

2. When a ball is thrown vertically upwards, its mechanical energy ..... .

a) remains constant b) increases

c) decreases d) doubles

(B) Give a reason for:

1. Aluminum is harder and has a higher melting point than sodium.

.....

2. The weight of an object differs from its mass.

.....

3. Avoid tasting, touching, or smelling any chemicals in the lab without the teacher's permission.

.....

4. Graphite is used in making dry cell batteries.

.....

3 (A) Write the scientific term:

1 A feeding relationship where one organism benefits, while the other neither benefits nor is harmed. (.....)

2 The process of breaking rocks into smaller pieces without changing their chemical composition. (.....)

(B) 1 What happens when...?

(1) An acid is added to a piece of limestone.

.....

(2) Acid rains fall on Earth's surface

.....

2 Write the chemical formula for the following compounds:

(1) Sodium carbonate. (.....)

(2) Silver chloride. (.....)

4 (A) Cross out the odd word:

1 Detergents – Baking soda – Sodium hydroxide solution – Hydrochloric acid solution

2 Basalt – Granite – Pumice – Marble

(B) 1 Mention the function of each of the following:

(1) Hydrochloric acid secreted by the stomach. (.....)

(2) Chemical indicators.

.....

2 Identify the feeding relationship between the following:

(1) Polar bear and seal. (.....)

(2) Two lions are eating a zebra. (.....)

Model (5)

24 Marks

1 (A) Complete the following sentences:

1 Short legs of arctic foxes is a ..... trait, while the taming lions is ..... trait.

2 The chemical formula of calcium hydroxide is ....., while the chemical formula of hydro sulphuric acid is .....

(B) 1 What is meant by ...?

(1) Indicators.

.....

.....

(2) Food web. (.....)

2 A small ball whose mass is 4 kg moves at a speed of 5 m/s. Calculate:

(1) Kinetic energy:

.....

(2) Its kinetic energy when the object stops moving:

.....

2 (A) Correct the underlined words:

1 If a body moves 70 meters north and then returns 20 meters south, its displacement is <u>90</u> meters. (.....)

2 Tin element makes up <u>95%</u> of the bronze alloy. (.....)

(B) 1 Mention one difference between:

(1) Growing hydrangea plants in acidic soil versus alkaline soil.

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

(2) Energy and Force (in terms of measuring units).

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

2 Write the formula and name of the acid containing the following anions:

(1) Iodide (I^-): (.....)

(2) Carbonate (CO_3^{2-}): (.....)

3 (A) Choose the correct answer:

1 Which of these organisms cannot make its own food?

a) Cactus. b) Bean plant. c) Bee. d) Green algae.

2 Which ion increases in concentration when an acidic oxide dissolves in water?

a) H^+ b) OH^- c) Cl^- d) Na^+

(B) 1 What happens when...?

(1) A litmus strip is dipped in acetic acid.

.....

(2) A sever muscular dystrophy occurs in some newborns.

.....

2 When do the following values equal zero?

(1) Kinetic energy of an object (.....)

(2) Displacement of an object (.....)

4 (A) Write the scientific term:

1 The set of points through which an object passes during its motion. (.....)

2 A non-metal element that is a good conductor of electricity. (.....)

(B) 1 Give a reason for:

(1) Milk of magnesia is used as a temporary treatment for stomach acidity.

.....

(2) The work done by a truck is greater than the work done by a car.

.....

2 What is the importance of ...?

(1) Demolition ball (.....).

(2) pH value (.....)