ALADWAA

Gem



Science

الصف 4 الابتدائى

النماذج النهائية للفصل الدراسى الأول

العام الدراسى 2024 - 2025

Model (1)

15 Marks

1 (A) Choose the correct answer:

1 Digestion starts in ..... with the help of ..... .

a) the mouth, acids
b) the stomach, acids
c) the mouth, saliva
d) the small intestine, pancreatic juices

2 Which of the following sentences helps bats survive in their habitats?

a) Echolocation helps bats communicate with each other.
b) Echolocation helps bats find their way and locate objects.
c) Echolocation helps bats do camouflage in their habitat.
d) Echolocation helps bats fly faster through air.

3 The wings of fireflies flash due to the ..... which occurs inside their bodies.

a) biological reaction b) chemical reaction c) physical activity d) light reaction

(B) Answer the following questions:

– At the same height a 10 kg box of apples stores more potential energy than a 5 kg box of oranges. **Why?**

.....

2 (A) Complete the following sentence:

– The received sound messages are transmitted from the ..... to the ..... through nerves.

(B) Answer the following questions:

1 Shadows are formed behind our bodies when the light falls on them. **Explain**.

.....

.....

2 What is the importance of the battery in a toy car?

.....

3 (A) Write the scientific term:

– The time taken by a jerboa to respond to danger. (.....)

(B) Answer the following questions:

1 Calculate the speed of a train that covers 600 km in a time of 10 hours.

.....

2 Which one reflects the light rays in one direction, mirror or wood and why?

.....

Model (2)

15 Marks

1 (A) Choose the correct answer:

1. The roots of mangroves trees help it to ..... .
   a) stand strong against the wind
   b) reach the underground water
   c) soak up much sunlight
   d) stand strong against strong water waves
2. Which of the following sequences to kick a ball on the floor is correct?
   a) Eyes → Nerves → Legs → Brain
   b) Legs → Brain → Nerves → Eyes
   c) Brain → Legs → Nerves → Eyes
   d) Eyes → Nerves → Brain → Legs
3. The body of a chameleon is covered with colored scale ..... .
   a) to hold tightly on the branches
   b) to avoid the scorching sun
   c) to search for food
   d) to hide among the colorful flowers

(B) Answer the following question:

– Which kid is faster, and why?

Kid (A)
Covers 10 m
in 2 seconds



Kid (B)
Covers 8 m
in 2 seconds

.....

2 (A) Complete the following sentence from the words between the two brackets:

– Nurse ants depend on the sense of ..... to warn scout ants that food is low.

(sight - smell)

(B) Answer the following questions:

1. When a kid pushes a swing, work is done. **Explain**.

.....

2. What is the difference between the inhaled air and the exhaled air?

.....

3 (A) Put (✓) or (✗):

- The nervous system works separately from the five senses. ( )

(B) What happens if ...?

1. The roller coaster slides from the top of the ramp. (Regarding the energy conversion)

.....

2. The small intestine is removed from the human body.

.....

.....

Model (3)

15 Marks

1 (A) Choose the correct answer:

1 What is the agama lizard's adaptation to survive in its desert habitat? .....

a) It finds shade during a hot sunny day.
b) It digs burrows to keep its body warm.
c) It has sandy-colored fur.
d) It searches for its food during day time.

2 Songs of humpback whales for mating are produced during .....

a) summer
b) winter
c) spring
d) fall

3 When the reaction time ..... , the chance to survive increases.

a) decreases
b) increases
c) is doubled
d) is not changed

(B) Answer the following questions:

– Calculate the speed of a car that travels 400 meters in 10 seconds.

.....

2 (A) Complete the following sentence from the words between the two brackets:

– Weaving of blood vessels around each other in penguin's feet is considered a ..... adaptation.

(structural – behavioral)

(B) Answer the following questions:

1 What happens if dolphins have weak sense of hearing.

.....

.....

2 Mention the importance of the seat belt in the vehicles during a car crash.

.....

3 (A) Cross out the odd word:

– Skin – Air – Iron – Cloth (.....)

(B) Answer the following questions:

1 Explain how fish respire under water.

.....

2 When a moving car crashes into a wall, it stops moving. Give a reason.

.....

.....

ALPWA Gen

Model (4)

15 Marks

1 (A) Correct the underlined word:

1. Diaphragm moves upwards during inhalation process. (.....)
2. Reflexes are controlled messages that we are barely aware of. (.....)
3. The moon gives off light. (.....)

(B) Give a reason for:

– When the roller coaster moves upwards, it stores more potential energy.

.....

2 (A) Choose the correct answer:

– Arctic fox has ..... .

a) white fur during winter, and short ears
b) long legs, and short ears
c) brown fur during summer, and long ears
d) brown fur during winter, and short ears

(B) Answer the following questions:

1. **How** the structural adaptation of the Egyptian Jerboa's long hind legs helps it survive.

.....

.....

2. In Newton cradle, some of the kinetic energy is lost. **Explain**.

.....

.....

3 (A) Complete the following sentence from the words between the two brackets:

– The arctic fox stays in burrows during ..... to stay warm. (day - night)

(B) Answer the following questions:

1. **What happens** if an egg falls from your hand. (Regarding the energy conversions)

.....

2. Stomach is an important organ in the digestive system. **Give a reason**.

.....

.....

Model (5)

15 Marks

1 (A) Choose the correct answer:

1. The organ that connects the throat with the stomach is ..... .

   a) mouth b) tongue c) esophagus d) small intestine

2. All the following are from the nocturnal animals' behavior, except ..... .

   a) looking for food at night to avoid extremely hot places

   b) food is only available at night

   c) relying on the night darkness to devour animals

   d) sleeping at night

3. Pushing and pulling forces are different in ..... .

   a) mass b) color c) direction d) energy

(B) Answer the following questions:

– What happens if a static ball is affected by unbalanced forces.

.....

2 (A) Cross out the odd word:

– Fuel – Compressed spring – Battery – Sunlight (.....)

(B) Answer the following questions:

1. The fishing cat's eyes seem to glow in the dark. **Explain**.

.....

.....

2. State the energy transformation when we rub our hands together.

.....

3 (A) Put (✓) or (✗):

– The brain needs to interpret and process an external signal in order to send the suitable responses.

(✓)

(B) Answer the following questions:

1. What happens when the angle of inclination of a ramp where a truck moves down increases. (Regarding the truck's speed and kinetic energy).

.....

2. The feet of the penguin don't freeze. **Give a reason**.

.....

.....