

Summative Assessment: Biological World <Answer Key>

P. 6 ()

Marks: _____ / 100

Name: _____ ()

Date: _____

Time allowed: 50 minutes

Part 1. Multiple Choice Questions (24 marks) @ 3 marks

For each question, please choose the correct answer and write the letter in the box provided.

1. Which of the following statements about the growth of plants are correct?

- I. Seeds first germinate, and then develop roots, stems and leaves.
- II. All plants should develop fruits.
- III. Pollination (spread of pollen) can be done mainly by insect and wind.
- IV. All plants should develop flowers.

- A. I and II
- B. II and IV
- C. I and III
- D. II and III

C

2. Which of the following items are the characteristics of fish?

- I. Most of them have scales on body.
- II. They swim with fins.
- III. They breathe with lungs.
- IV. They have wet skin.

- A. I, II and III
- B. I, II and IV
- C. II, III and IV
- D. All of them

B

3. During photosynthesis, different gases exchange. They are _____.

- I. Hydrogen
- II. Carbon dioxide
- III. Carbon monoxide
- IV. Oxygen

- A. I and II
- B. II and IV
- C. I and III
- D. II and III

B

4. Which of the following functions of roots are correct?

Types of roots	Environment	Functions of roots
Deep roots	Desert	I. They absorb underground water in the soil.
Aerial roots	Mangrove	II. They grow from branches for oxygen in the air.
Shallow roots	Desert	III. They absorb surface water quickly.
Buttress roots	Tropical rainforest	IV. They absorb nutrients from the soil quickly.

- A. I, II and III B. I, II and IV
C. II, III and IV D. I, III and IV

A

5. Which of the following animals are reptiles?

- I. Penguin II. Snake III. Tortoise IV. Crocodile

- A. I, II and III B. I, II and IV
C. II, III and IV D. All of them

C

6. Which of the following statements are correct?

- I. Frog: "My skin colour protects me from other animals' attack."
II. Woodpecker: "I find insects in tree trunks by my sharp and hard beak."
III. Snake: "I have scales on my body so that I can go around places."
IV. Lizard: "I am red in colour. I want to tell others that I am poisonous and I am not good for eating."

- A. I, II and III B. I, II and IV
C. II, III and IV D. All of them

B

7. Which of the following items are the nutrients for plants?

- I. Roots II. Animals' waste III. Dead bodies IV. Seeds

- A. I and II B. II and IV
C. I and III D. II and III

D

8. Which of the following statements about tropical desert are correct?

- I. It is hot throughout the year.
- II. A lot of animals live in it.
- III. There is scarce vegetation.
- IV. There are extreme day and night temperatures.

- A. I, II and III
- B. I, II and IV
- C. II, III and IV
- D. I, III and IV

D

Part B. Diagram Annotation (12 marks) @ 2 marks (wrong spelling @ -1)

1. Fill in the name of different parts of the flower and state their functions.

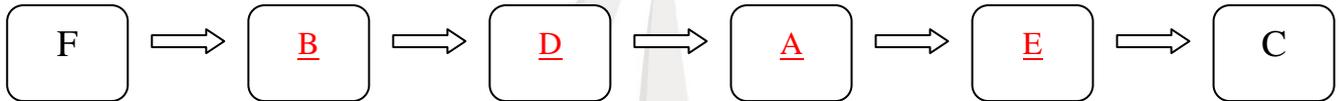


- A: name: Stamen to produce pollen.
- B: name: Pistil to receive pollen.
- C: name: Corolla to attract insects.
- D: name: Sepal to protect the flower buds.

Part C. Sequencing (8 marks) @ 2 marks

1. Arrange the order of the growth of a frog.

- A. Front legs are grown.
- B. Fertilized eggs are produced and they live in the water.
- C. It turns into an adult frog.
- D. A tadpole is developed.
- E. Hind legs are grown.
- F. The male frog mates with the female one.



Part D. Short questions (41 marks)

Each spelling mistake / incomplete sentence, -1
In each of the 4 short questions, max - 2.

Please answer in complete sentences.

1. Peter said, "Bats can fly. They must be birds."
John replied, "I don't think so."



- a. State four characteristics of birds? (8 marks)

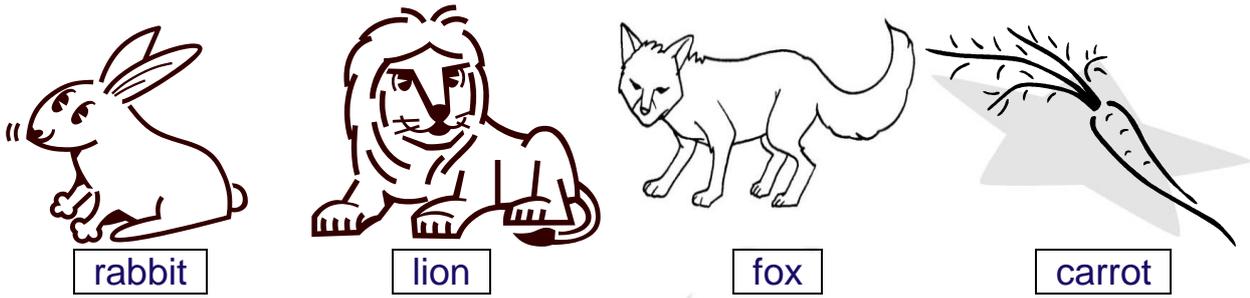
have feather / have beaks/ have a pair of legs/ have a pair of wings/
breathe with lungs
any 4 of the above (@ 2 marks)

- b. Why did John say that bats were not birds? (6 marks)

(State 2 reasons and name the type of animal that bats belong to.)

2 reasons: have hair on the body/ feed on mother's milk
Bats are mammals
(@ 2 marks)

2.



- a. Give the correct order of the food chain with the plant and animals above. (4 marks)
(@ 1 mark)

carrot → rabbit → fox → lion

- b. What will happen if humans kill all the foxes to produce expensive fur or clothes?
Give two results to the ecosystem. (4 marks)

great growth of rabbit population
all carrots are eaten up /
lions go someplace else to find food/ die of hunger (any 2 @ 2 marks)

- c. In an ecosystem, there are more than two food chains. It is called a

food web (2 marks)

3. Animals adapt to the environment by different means. (9 marks)

For each animal below, i. How do they adapt to the environment?
ii. Why do they do that way?

- a. Tortoise:



- (i) hibernation (2 marks)
(ii) reduce the use of energy (2 marks)

(iii) Name one animal that uses this method of adaptation: snake / any possible answer (1 mark)

b. Black-faced spoonbill lives in Hong Kong from December to February only.



in Mei Po

(i) migration (2 marks)

(ii) find food/ move to warmer places (2 marks)

4. Dandelion is a plant which is very light and soft like cotton.

a. How are its seeds dispersed? (2 marks)



by wind (2 marks)

b. Give three other methods that seeds are spread. (6 marks)

by water/ by animals/ by bursting mechanism/ eaten by animals and spread

(any three of them @ 2 marks)

Part E. Long questions (15 marks)

(Wrong spelling @ -1, max -3)

“About 120, 000 km² of tropical rainforest has been cleared every year. At this rate, all tropical forests may be gone by the year 2090.”

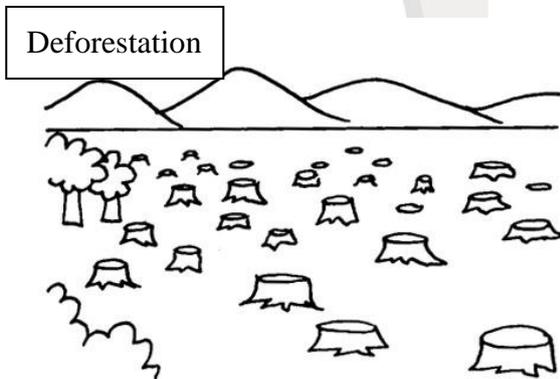
Give **two** reasons for cutting trees AND **three** negative results to the ecosystem.

Reason:

- urban development/ buildings
- industry
- recreation
- transport facilities
- making wood products
- other possible answer (any 2 @ 2 marks)

negative results

- break down of food chain
- animal extinction
- loss of nutrient in soil/ break down of nutrient cycle
- increase the amount of carbon dioxide
- other possible answer (any 3 @ 2 marks)



~ End of Paper ~