

IELTS Reading Passage 3

Read the passage and answer the questions. Use your predicting skills. Note the type of questions.

Antarctic Penguins

Though penguins are assumed to be native to the South Pole, only four of the seventeen species have evolved the survival adaptations necessary to live and breed in the Antarctic year round. The physical features of the Adelie, Chinstrap, Gentoo, and Emperor penguins equip them to withstand the harshest living conditions in the world. Besides these four species, there are a number of others, including the yellow feathered Macaroni penguin and the King penguin that visit the Antarctic regularly but migrate to warmer waters to breed. Penguins that live in Antarctica year round have a thermoregulation system and a survival sense that allows them to live comfortably both on the ice and in the water.

In the dark days of winter, when the Antarctic sees virtually no sunlight, the penguins that remain on the ice sheet sleep most of the day. To retain heat, penguins huddle in communities of up to 6,000 of their own species. When it's time to create a nest, most penguins build up a pile of rocks on top of the ice to place their eggs. The Emperor penguin, however, doesn't bother with a nest at all. The female Emperor lays just one egg and gives it to the male to protect while she goes off for weeks to feed. The male balances the egg on top of his feet, covering it with a small fold of skin called a brood patch. In the huddle, the male penguins rotate regularly so that none of the penguins have to stay on the outside of the circle exposed to the wind and cold for long periods of time. When it's time to take a turn on the outer edge of the pack, the penguins tuck their feathers in and shiver. The movement provides enough warmth until they can head back into the inner core and rest in the warmth. In order to reduce the cold of the ice, penguins often put their weight on their heels and tails. Antarctic penguins also have complex nasal passages that prevent 80 percent of their heat from leaving the body. When the sun is out, the black dorsal plumage attracts its rays and penguins can stay warm enough to waddle or slide about alone.

Antarctic penguins spend about 75 percent of their lives in the water. A number of survival adaptations allow them to swim through water as cold as -2 degrees Celsius. In order to stay warm in these temperatures, penguins have to keep moving. Though penguins don't fly in the air, they are often said to fly through water. Instead of stopping each time they come up for air, they use a technique called "porpoising," in which they leap up for a quick breath while swiftly moving forward: Unlike most birds that have hollow bones for flight, penguins have evolved hard solid bones that keep them low in the water. Antarctic penguins also have unique feathers that work similarly to a waterproof diving suit. Tufts of down trap a layer of air within the feathers, preventing the water from penetrating the penguin's skin. The pressure of a deep dive releases this air, and a penguin has to rearrange the feathers through a process called "preening." Penguins also have an amazing circulatory system, which in extremely cold waters diverts blood from the flippers and legs to the heart.

While the harsh climate of the Antarctic doesn't threaten the survival of Antarctic penguins, overheating can be a concern, and therefore, global warming is a threat to them. Temperate species have certain physical features such as fewer feathers and less blubber to keep them cool on a hot day. African penguins have bald patches on their legs and face where excess heat can be released. The blood vessels in the penguin's skin dilate when the body begins to overheat, and the heat rises to the surface of the body. Penguins who are built for cold winters of the Antarctic have other survival techniques for a warm day, such as moving to shaded areas, or holding their fins out away from their bodies.

▶▶ Classifying Information

Questions 1-5

Classify the following facts as applying to

A Antarctic penguins

B Temperature-area penguins

Write the appropriate letter, A or B, in boxes 1-5 on your answer sheet.

- 1 stand in large groups to keep warm
- 2 spend about three quarters of its time in the water
- 3 have feathers that keep cold water away from its skin
- 4 have areas of skin without feathers
- 5 have less blubber.

▶▶ Completing Sentences

Questions 6-9

Complete each of the following sentences with information from the reading passage. Write your answers in boxes 6-9 on your Answer Sheet. Write No MORE THAN THREE words for each answer.

- 6 Most penguins use to build their nests.
- 7 While the male emperor penguin takes care of the egg, the female goes away to
- 8 A is a piece of skin that the male emperor penguin uses to protect the egg.
- 9 Penguins protect their feet from the cold of the ice by standing on their

▶▶ Choosing Answers from a List

Questions 10-13

The article mentions many facts about penguins.

Which four of the following features are things that enable them to survive in very cold water?

Write the appropriate letters **A-H** in boxes 10-13 on your Answer Sheet.

- A** They move through the water very quickly.
- B** They hold their flippers away from their bodies. **C** They choose shady areas.
- C** When necessary, their blood moves away from the flippers and toward the heart.
- D** They breathe while still moving.
- E** The blood vessels in their skin dilate.
- F** They waddle and slide.

G Their feathers hold in a layer of air near the skin.

▶▶ Answer Key

- 1.** (A) Paragraph 2 discusses how Antarctic penguins "huddle in communities" to keep warm.
- 2.** (A) The first sentence of Paragraph 3 states: "Antarctic penguins spend about 75 percent of their lives in the water."
- 3.** (B) Paragraph 3 discusses the unique feathers of Antarctic penguins that that work similarly to a waterproof diving suit: "Tufts of down trap a layer of air within the feathers, preventing the water from penetrating the penguin's skin."
- 4.** (A) Paragraph 4 states: "Temperate species have certain physical features such as fewer feathers and less blubber to keep them cool on a hot day."
- 5.** (B) Paragraph 4 discusses the bald patches of a temperate species called African penguins.
- 6.** rocks. Paragraph 2 states: "When it's time to create a nest, most penguins build up a pile of rocks on top of the ice to place their eggs."
- 7.** feed/eat. Paragraph 2 discusses the Emperor penguin's gender roles: "The female Emperor lays just one egg and gives it to the male to protect while she goes off for weeks to feed."
- 8.** brood patch. Paragraph-2 explains how the male Emperor penguin takes care of the egg: "The male balances the egg on top of his feet, covering it with a small fold of skin called a brood patch."
- 9.** heels and tails. Toward the end of paragraph 2 the text states: "In order to reduce the cold of the ice, penguins often put their weight on their heels and tails."
- 10.** (A) Paragraph 3 states that penguins have to keep moving to stay warm. Their swimming is compared to flight.
- 11.** (R)The last sentence in Paragraph 3 describes the penguin's circulatory system: "Penguins also have an amazing circulatory system, which in extremely cold waters diverts blood from the flippers and legs to the heart."
- 12.** (E) Paragraph 3 describes "porpoising" which penguins do in order to be able to breathe without having to stop swimming.
- 13.** (H) Paragraph 3 describes how feathers keep Antarctic penguins dry: "Tufts of down trap a layer of air within the feathers, preventing the water from penetrating the penguin's skin." Choice (B), (C), and (F) are incorrect because these are all of examples of how penguins stay cool.

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