

PART I: ACCESS TO INFORMATION FROM WRITTEN TEXTS (70 points)

Read the article below and then answer questions 1-7.

FOLLOWING THE BIRDS

Every year, when daylight hours get shorter and the weather gets colder, millions of birds fill the skies and fly to distant, warmer lands where food is more plentiful. On their long, tiring journey, the birds take breaks to eat and rest. Thousands of migrating storks, for example, stop in Israel on their way from Europe to Africa. Scientists have long been fascinated by these migrations, and have been trying to discover their secrets.

One common method used to study migration paths is to catch a bird at one of its resting places and put a small ring around its leg. Each ring has a number on it, as well as contact details that enable whoever finds the bird in another location to report it. While this method tells researchers where the bird landed, it does not give a full picture of its whole migration route. But nowadays researchers are attaching tiny electronic tracking devices to the birds they catch, which make it possible to follow their flight continuously. In addition, there are now special websites where birdwatchers can report the various species they see. This inexpensive method has provided researchers with millions of reports from all over the world.

Based on the information they collected, researchers have been able to gain a better understanding of bird migration. For example, they have found that birds can adjust the speed at which they fly so that they arrive at their resting places when conditions there are ideal – the grass is high, the fruit is ripe, and there are plenty of insects to eat. Furthermore, when they are faced with unexpected dangers, such as strong winds, they can deal with them by changing their flight route.

But the data also showed something surprising: Some migrating birds are taking new flight routes, and others are starting their migration later in the year. Scientists suspect that these changes in migration patterns are caused by climate change. "In many areas, winters are drier or summers are longer, so birds that keep returning to the same places at the same times won't find enough food," says biologist Melanie Stevens. "Bird species that change their migration patterns find the food they need, but we're very worried that others won't survive. That would be a terrible loss for us all."

QUESTIONS (70 points)

Answer questions 1-7 in English, according to the article. In questions 1, 5 and 6, circle the number of the correct answer. In the other questions, follow the instructions.

1. What do we learn from lines 1-5?

- (i) Why scientists are fascinated by bird migrations.
- (ii) Why birds need to migrate every year.
- (iii) What scientists have discovered about bird migrations.
- (iv) Why millions of birds live in cold places.

(7 points)

2. COMPLETE THE SENTENCE.

According to lines 1-5, migrating storks stop in Israel because they
 (8 points)

3. What are we told in lines 6-13 about the study of bird migration?

PUT A ✓ BY THE TWO CORRECT ANSWERS.

- i) What problem there is with each study method.
- ii) How information on migration is collected.
- iii) What migration paths researchers want to study.
- iv) What information is not useful to researchers.
- v) How birdwatchers can help researchers.
- vi) How tracking devices are attached to the birds.

(2x8=16 points)

4. How do tracking devices help researchers who study bird migration? (lines 6-13)

COMPLETE THE SENTENCE.

By using these devices, the researchers
 (8 points)

5. What do both examples in lines 14-19 show?

- (i) How scientists get data on bird migration.
- (ii) How birds change the speed at which they fly.
- (iii) Why birds need ideal conditions for migration.
- (iv) What birds are able to do during migration.

(7 points)

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6. What does Melanie Stevens describe in lines 20-26?

- (i) Difficulties in studying birds.
- (ii) Reasons for studying birds.
- (iii) Effects of climate change.
- (iv) Causes of climate change.

(8 points)

7. According to the article, migrating birds can change their flight routes. How does this help them complete their journey successfully?

Give TWO answers, ONE from each of the paragraphs below.

COMPLETE THE SENTENCES.

Lines 14-19: It enables them to

Lines 20-26: It enables them to

(2×8=16 points)