



Orientation of Birds

A

Most of the effort applied to understanding how birds make a migratory flight has been directed toward environmental cues that birds use to maintain a particular flight direction. These cues are landmarks on the Earth's surface, the magnetic lines of flux that longitudinally encircle the Earth, both the sun and the stars in the celestial sphere arching over the Earth, and perhaps prevailing wind direction and odors.

B

Landmarks are useful as a primary navigation

解析

答题

Question 1

1/7

Wind might play a role.

☒ A F

☐ B A

☐ C E

☐ D H

解析

Keywords: wind

原文： 对应正文F段 it has been hypothesised that

birds could use these prevailing wind

解析

答题

Question 1

1/7

 H

解析

Keywords: wind

原文： 对应正文F段 it has been hypothesised that birds could use these prevailing wind directions as an orientation cue.

翻译： 所以有假设认为， 鸟类可以根据盛行风向来作为定向的线索。

解析： Wind might play a role. 题意： 风可能起到了一定的作用

Question 2

2/7

The secretions from birds' brain respond to

解析

答题

Question 1

1/7

Question 2

2/7

The secretions from birds' brain respond to the sun.

☐ A F☐ B D☐ C G☒ D C

解析

解析

答题

Question 2

2/7

解析

Keywords: secretions, sun

原文： 对应正文C段 It has been recently shown that melatonin secretions from the light-sensitive pineal gland on the top of the bird's brain are involved in this response.

翻译： 鸟类头部的顶部有着对光敏感的松果体，它会分泌褪黑激素。最近的研究显示这种激素与上边的现象相关。

解析： The secretions from birds' brain respond to the sun. 题意： 鸟类大脑的分泌物对太阳有所回应

Question 3

3/7

解析

答题

Question 2

2/7

Question 3

3/7

The birds count on a combination of clues to cope with the versatile environment.

☒ A H☐ B B☐ C G☐ D E

解析

解析

答题

Question 3

3/7

解析

Keywords: count on, rely upon; combination, a suite of ; a combination of clues

原文： 对应正文H段 Considering the array of demonstrated and suggested cues that birds might use in their orientation, it is clear that they rely upon a suite of cues rather than a single cue.

翻译： 虑到已展示出和推测出的这一系列鸟类定向的线索，我们可以很清楚的发现，鸟类定向是根据一套线索而非单个线索的。

解析： The birds count on a combination of clues to cope with the versatile environment. 题意： 面对各种环境鸟类需要根据多条线索的结合来定位

解析

答题

Question 3

3/7

的结合来定位

Question 4

4/7

After some nerves were cut off, the birds cannot orient as usual.

☐ A E

☐ B A

☒ C G

☐ D D

解析

答题

Question 4

4/7

解析

Keywords: nerves were cut off

原文：对应正文第G段 If the olfactory nerves of homing pigeons are cut, the birds do not return to their home loft as well as birds whose olfactory nerves were left intact.

翻译：如果信鸽的嗅觉神经被切断，那它们就不能和那些嗅觉神经完好的鸟类一样，再回到自己的巢中了。

解析：After some nerves were cut off, the birds cannot orient as usual. 题意：在一些神经束被切断后，鸟不能像平常一样定位

Question 5

5/7

解析

答题

Question 4

4/7

Question 5

5/7

Birds might use magnetic field to find their way.

☐ A☐ B H☒ C E☐ D B

解析

解析

答题

Question 5

5/7

解析

Keywords: magnetic field

原文： 对应正文E段 The nomadic horsemen of the steppes of Asia used the response of lodestones to the Earth's magnetic field to find their way, and the hypothesis that migrating birds might do the same was suggested as early as the middle of the nineteenth century.

翻译： 在亚洲草原上迁徙的游牧民族会利用天然磁石对地磁场的回应来找到他们的路，于是19世纪中叶某个假设认为，鸟类大概也可以用同样的原理迁徙。

解析： Birds might use magnetic field to find their way. 题意： 鸟类可能靠磁场定位

解析

答题

Question 5

5/7

Question 6

6/7

Disoriented cues were made in the experiments.

☐ A C☐ B E☒ C D☐ D F

解析

解析

答题

Question 6

6/7

Keywords: disoriented cues

原文： 对应正文D段 Steve Emlen was able to show that the orientation was not dependent upon a single star, like Polaris, but to the general sky pattern. As he would turn off more and more stars so that they were no longer being projected in the planetarium, the bird's orientation became poorer and poorer.

翻译： 史蒂夫·埃姆伦还可以证明， 鸟类定向绝不是只靠一颗星星， 比如北极星， 而是整个星图。 他一颗一颗关掉模拟天幕上的星星， 鸟类的定向能力变得越来越差。

解析： Disoriented cues were made in the experiments. 题意： 实验中制造了一些干扰定位的线索

解析

答题

Question 6

6/7

Question 7

7/7

The birds that always migrate alone could not use this clue.

☐ A H☒ B B☐ C D☐ D F

解析

解析

答题

Question 7

7/7

D F

解析

Keywords: sole和family flocks反义对应; migrate alone

原文：对应正文B段 But most birds do not migrate in family flocks, and on their initial flight south to the wintering range or back north in the spring must use other cues.

翻译：但大多数的鸟类不跟着族群迁徙，所以冬天里，它们独自飞往南方，春天里又飞回北方的时候一定是用了其它的线索。

解析：The birds that always migrate alone could not use this clue. 题意：总是独飞的鸟类无法用该条线索定位