**TPO 47- Question 1**

This reading tries to refuse the possibility of power flight in pterosaurs. According to the passage, there are three main reasons to deny the possibility of power flight, and these reasons are illustrating as follows. First, pterosaurs are cold-blood, second, these are large and heavy animals, and finally, according to pterosaurs' fossils, due to small leg muscles, they could not use running to gain speed and then jumping. But according to the listening, this hypothesis had some missing points, and she believes these are wrong. In the following paragraphs, I will discuss and illustrate these issues.

According to the reading, somehow, pterosaurs are ancestors of the modern reptiles, and modern reptiles are cold-blooded. So pterosaurs are cold-blooded too. Usually, cold-blooded animals have a slow metabolism and are unable to produce much energy, and also power flight needs much energy. So, we can reject the possibility of these issues. But she believes that, base on pterosaurs' fossils, they had a body that covered with hair, and this is specifications of warm-blooded animals, so she believes that, pterosaurs were a warm-blooded animal, not cold-blooded. They can produce sufficient energy for power flight.

Secondly, according to the reading, pterosaurs were as large as a giraffe so they could be too heavy, and they could not be able to flap their wings fast enough to fly. But according to listening, there are some proves that show, their bones have been with many holes. Because of this fact, although they had large bodies with huge bones, they had a light weight. So they could easily flight.

Third, according to reading, all animals with powered flight could take off from the ground. For example, birds usually take off by jumping from their legs or running to gaining speed and then jump. But as mentioned above, they were large animals, so these methods would not have worked for them unless they had huge and strong muscles. But, according to fossils, their back leg muscles were too small and weak. But according to listening, the comparing of birds with pterosaurs are wrong and out of scope. Birds usually have two limbs, but pterosaurs have four limbs. So their four limbs can compensate for the effect of the small size of their muscles, and they could easily have been flight.

Time: 35 min

Words: 399