

## ECAT Pre General Science English Online Test

Sr	Questions	Answers Choice
1	<p>Philadelphia is a city known for many things. It is where the Declaration of independence was signed in 1776, and it was also the first capital of the United States. But one fact about Philadelphia is not so well-known: it is home to nearly 3,000 murals painted on the sides of homes and buildings around the city. In fact, it is said that Philadelphia has more murals than any other city in the world, with the exception of Rome. How did this come to be?</p> <p>More than 20 years ago, a New Jersey artist named Jane Golden started a program pairing troubled youth with artists to paint murals on a few buildings around the city. Form this small project, something magical happened. The young people involved helped to create magnificent pieces of art, but there were other, perhaps more important benefits. The young people learned to collaborate and get along with many different kinds of people during the various steps required to paint and design a mural. They learned to be responsible, because they needed to follow a schedule to make sure the murals were completed. They also learned to take pride in their community. It is hard for any resident to see the spectacular designs and not feel proud to be a part of Philadelphia.</p> <p>Take a walk around some of the poorest neighborhoods I Philadelphia, neighborhoods full of broken windows and littered front steps, and you will find beautiful works of art on the sides and fronts of buildings. Of course they murals are not just in poor neighborhoods, but more affluent ones as well. Special buses take tourists to different parts of the city to see the various murals, which range from huge portraits of historical heroes, to cityscapes, to scenes depicting the diverse ethnic groups that call Philadelphia home.</p> <p>As a result of its success, the mural program created by Jane Golden has now become the nation's largest public art program and a model for to troubled youth.</p> <p>As used in paragraph 1, the phrase "it is said" suggests that the author is</p>	<p>A. Knowingly misleading the reader  B. Using a quote from someone else  C. Referring to something that is widely believed, but may be untrue  D. Referring to something that he or she does not personally believe</p>
2	<p>Philadelphia is a city known for many things. It is where the Declaration of independence was signed in 1776, and it was also the first capital of the United States. But one fact about Philadelphia is not so well-known: it is home to nearly 3,000 murals painted on the sides of homes and buildings around the city. In fact, it is said that Philadelphia has more murals than any other city in the world, with the exception of Rome. How did this come to be?</p> <p>More than 20 years ago, a New Jersey artist named Jane Golden started a program pairing troubled youth with artists to paint murals on a few buildings around the city. Form this small project, something magical happened. The young people involved helped to create magnificent pieces of art, but there were other, perhaps more important benefits. The young people learned to collaborate and get along with many different kinds of people during the various steps required to paint and design a mural. They learned to be responsible, because they needed to follow a schedule to make sure the murals were completed. They also learned to take pride in their community. It is hard for any resident to see the spectacular designs and not feel proud to be a part of Philadelphia.</p> <p>Take a walk around some of the poorest neighborhoods I Philadelphia, neighborhoods full of broken windows and littered front steps, and you will find beautiful works of art on the sides and fronts of buildings. Of course they murals are not just in poor neighborhoods, but more affluent ones as well. Special buses take tourists to different parts of the city to see the various murals, which range from huge portraits of historical heroes, to cityscapes, to scenes depicting the diverse ethnic groups that call Philadelphia home.</p> <p>As a result of its success, the mural program created by Jane Golden has now become the nation's largest public art program and a model for to troubled youth.</p> <p>The main focus of the passage is</p>	<p>A. An art program designed to help troubled youth  B. The many tourists who come to Philadelphia to see murals  C. The reasons why Philadelphia is a unique city  D. How Jane Golden came up with the idea to start a mural program</p>

When we are young, we learn that tigers and sharks are dangerous animals. We might be scared of them because they are big and powerful. As we get older, however, we learn that sometimes the most dangerous animals are also the smallest animals. In fact, the animal that kills the most people every year is one that you have probably killed yourself many times: the mosquito.

While it may seem that all mosquitoes are biters, this is not actually the case. Male mosquitoes eat plant nectar. One the other hand, female mosquitoes feed on animal blood. They need this blood to live and produce eggs. When a female mosquito bites a human being, it transmits a small amount of saliva into the blood. The saliva may or may not contain a deadly disease. The result of the bite can be as minor as an itchy bump or as serious as death.

Because a mosquito can bite many people in the course of its life, it can carry diseases from one person to another very easily. Two of the most deadly diseases carried by mosquitoes are malaria and yellow fever. More than 700 million people become sick from these diseases every year. At least 2 million of these people will die from these diseases.

Many scientists are working on safer and better ways to kill mosquitoes, but so far, there is no sure way to protect everyone in the world from their deadly bites. Mosquito nests can be placed over beds to protect people against being bitten. These nets help people stay safe at night, but they do not kill any mosquitoes. Mosquitoes have many natural enemies like bats, birds, dragonflies, and certain kinds of fish. Bringing more of these animals into places where mosquitoes live might help to cut down the amount of mosquitoes in that area. This is a natural solution, but it does not always work very well. Mosquitoes can also be killed with poisons or sprays. Even though these sprays kill mosquitoes, they may also harm other plants or animals.

Although mosquitoes may not seem as scary as larger, more powerful animals, they are far more dangerous to human beings. But things are changing. It is highly likely that one day scientists will find a way to keep everyone safe from mosquitoes and the diseases they carry.

Which of the following words best described the author's overall attitude towards the prospect of solving the mosquito problem?

- A. Despondent, meaning hopeless or dejected
- B. Exasperated, meaning extremely irritated or annoyed
- C. Equivocal, meaning doubtful or uncertain
- D. Optimistic, meaning hopeful or taking a favorable view

3

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Which of the following best summarizes the information in paragraph 4?

- A. Mosquito nets provide adequate protection from deadly mosquitoes
- B. Poisons and sprays provide adequate protection from deadly mosquitoes
- C. The introduction of the mosquito's natural enemies provides adequate protection from deadly mosquitoes
- D. There is not perfect solution to the mosquito problem

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It can be understood that the introduction of dragonflies might reduce the number of flies in a given area because dragonflies

- A. Work together with mosquitoes
- B. Kill mosquitoes
- C. Cannot be killed by poisons or sprays
- D. Attract bats

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Based on information in paragraph 3, it can be understood that if you get sick with malaria or yellow fever, your chances of survival are

- A. Terrible
- B. Mediocre
- C. Good
- D. Excellent

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- A. Insignificant
- B. Deadly
- C. Frustrating
- D. Dangerous

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As used in paragraph 2, minor most nearly means

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- A. Oppose a previous argument
- B. Question an upcoming conclusion
- C. Confirm a hypothesis
- D. Support a later statement

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In paragraph 2 the author writes, "This saliva may or may not contain a deadly disease." The purpose of this statement is to

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

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Based on the information in paragraph 2, we can understand that

I male mosquitoes and female mosquitoes have different eating habits

II male mosquitoes are harmless to humans

III female mosquitoes are responsible for transmitting disease to humans

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- A. Kill more people than mosquitoes
- B. Are big and powerful
- C. Are found all over the world
- D. Have no natural enemies

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According to the author, some people are more afraid of tigers and sharks than mosquitos because tigers and sharks

