

# Preview Test: Final Reading\_Semester 3\_1920

## ★ Test Information

### Description

Instructions This reading text represents 25% of your final exam grade.

You have a maximum of 40mins to complete this section of the exam. After this time, the test will automatically be submitted,

Please read the instructions for all questions carefully. If you are asked to provide evidence from the text, please be aware that marks are available for this.

**Please be reminded that any work that you submit must be 100% your own. If you are suspected of plagiarism, you will receive a score of zero for the whole Final Exam. This will result in you failing Academic English 1.**



Timed Test This test has a time limit of 40 minutes. This test will save and submit automatically when the time expires.

Warnings appear when **half the time, 5 minutes, 1 minute, and 30 seconds** remain. *[The timer does not appear when previewing this test]*

Multiple Attempts Not allowed. This test can only be taken once.

Force Completion This test can be saved and resumed at any point until time has expired. The timer will continue to run if you leave the test.

### Active Goals

Actions	ID	Goal	Goal Set Name	Category
 	ENGL121-CLO1	Identify purpose and viewpoint of spoken and written communication	ASD	ENGL121

### 🔖 Question Completion Status:

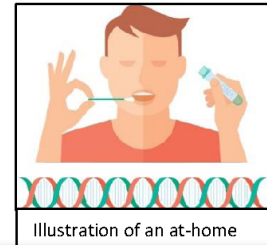
QUESTION 1

1 points

Save Answer

# Benefits and Risks of Genetic Testing

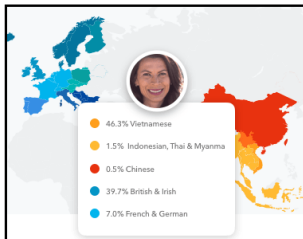
Medical Matters Monthly, April 2020



1. Traditionally, the only way for a person to learn more about their genes would be by undergoing expensive and invasive hospital procedures. These were only given if a person had a genuine medical need, such as the risk of a serious disease. However, in the past ten years, a few biotechnology companies such as '23 and me' have begun

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers

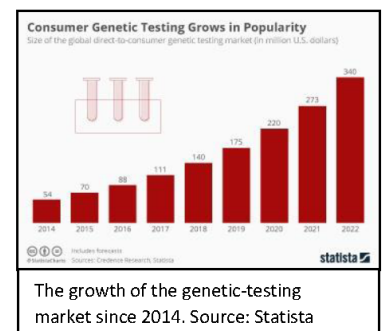


Example genetic heritage results from company '23 and Me'

2. The results provide customers with a lot of information. Firstly, they can tell you about your ancestors, the people from your family in the past such as your great-great grandparents, and what part of the world they came from. As the diagram on the left illustrates, these results are extremely accurate and show the exact percentage of your genetic heritage. For people who do not know much about their ancestry, such as some North Americans, this is quite interesting, because their families often came from many different places in the past.

3. Another reason why people may choose to conduct a genetic test is to find out about the hereditary – or genetically caused - diseases that you and your children are at risk for. Take Alzheimer's disease as an example. Alzheimer's sufferers lose crucial brain functions such as memory later in life, which often leads to more serious behavior and social problems. According to various research studies conducted in the late 2000s, people who carry certain types of the APOE gene, such as APOEε4, are much more likely to develop Alzheimer's. An at home genetic test will tell you whether or not you carry this gene, and will help you and your family to prepare for the future.

4. Given the usefulness of the information that these tests provide, their relatively low cost and the convenience at which the tests can be taken, it is hardly surprising that genetic-testing services have become extremely popular. According to data from Statista (2020) sales of these kits in the last year alone represent a multi-million dollar industry worldwide. This has also led to an increase in dollars that investors have given to these biotech companies to help them develop and market their product. At first glance, it would seem like this is good news for everyone—people can learn more about their genetic data and businesses can make money. However, a more careful analysis shows that there are a few issues.



5. The first issue is with understanding the data that the tests provide. As previously mentioned, the APOEε4 gene has been identified as a potential indicator of someone developing Alzheimers. However, not **all** people with APOEε4 will develop Alzheimer's. In fact, a study by the United Nations (2014) proved that African populations with the gene do not show any increased chance for Alzheimer's at all. There are many reasons why a person gets a disease— their childhood environment, the foods they eat, etc. Genes are just one of the possible causes. However, most people do not understand genetics well enough to see this. They see the increased possibility for a disease and think that it will definitely happen, which may cause them to worry unnecessarily.

6. There is also a problem with how these companies collect and share their customer's data. Genes contain a whole lot of information about you, and that information can be very valuable to the right people. A report published by the Business Ethics Journal (2017) showed that the majority of genetic-testing companies sell their customers' genetic data to pharmaceutical companies, the companies that make medicine. The pharmaceutical companies say that they use data to create better medicines for genetic diseases. So this *seems* to be a positive. But, what if they start selling customer information to other companies, such as advertisers or even health insurance companies? In many countries, this could make buying insurance very expensive, or even impossible, for someone that carries genes for a serious disease. This means that a customer who has paid money to a genetic testing company to find out about their genes may find themselves significantly disadvantaged financially in the future. This hardly seems fair.

7. Overall, at-home genetic-testing services are certainly an exciting new industry. However, customers should be very careful about the type of company that they trust with this very personal, and valuable, information. Let's hope that these companies keep the best interests of their customers in mind, rather than focusing purely on profit.

Preview the text (**look at the title, images and introduction paragraph only**) and apply your critical thinking skills.

Make a prediction about the content of the text. Mention what evidence from the text this is based on.

Answers that are copied directly from the text will not be accepted.



Path: p

Words:0

## QUESTION 2

1 points

Save Answer

According to paragraph 2, why is genetic testing so popular in the United States?

- because the results provide customers with a lot of information
- because US citizens travel to many different countries every year
- because people in the US want to find out more about their genetic heritage
- because the results are very accurate

## QUESTION 3

1 points

Save Answer

In which paragraph does the writer suggest that people do NOT always understand how genetics works?

- paragraph 2
- paragraph 3
- this point is not mentioned in the text
- paragraph 5

## QUESTION 4

1 points

Save Answer

What is the main conclusion that can be drawn about at home genetic testing from this passage?

- is too risky and should be avoided
- it can cure diseases like Alzheimer's
- it does not provide accurate information
- it can be useful but also has risks

**QUESTION 5**

1 points

Save Answer

The writer's example in paragraph 5 about African populations with the APOEε4 gene is important because it \_\_\_\_.

- gives strength to the claim that carrying certain genes does not always mean a disease will develop
- proves that the APOEε4 gene causes Alzheimer's disease
- proves that African populations never develop Alzheimer's disease
- proves that African populations do not understand genetics

**QUESTION 6**

2 points

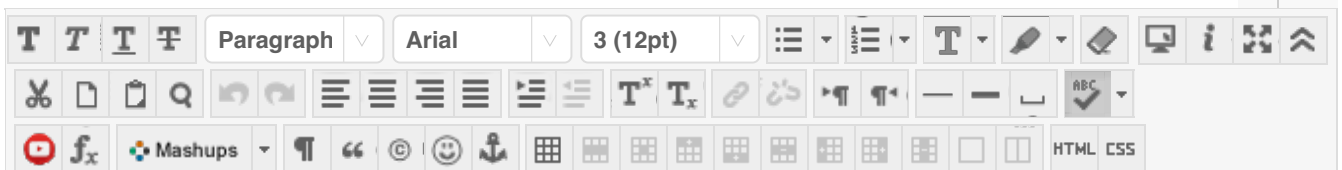
Save Answer

Would this text be a reliable source of information for a student writing an academic essay about Gene Testing?

Support your answer with at least **two pieces** of evidence from the text.

You may wish to consider the following:

- what type of text it is and who the author is
- does it contain academic evidence and show where this evidence comes from?



Path: p

Words:0

**QUESTION 7**

3 points

Save Answer

Based on the reading, do you think the risks of genetic outweigh the benefits? Summarize your argument in 50-75w

Support your argument with at **least two pieces** of evidence from the text.

Rich text editor toolbar with options for Paragraph, Arial, 3 (12pt), and various text and image editing tools.

Path: p

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