**English 2**

**Reading Comprehension Tasks**

**Text 1: New Transparent Metal Could Make Smartphones Cheaper.**

1. What component has kept the price of mobile phones screens high?

2. What’s the characteristic and the advantage of stronium vanadate? Explain the researchers’ findings about this component.

3. How do smartphones screens need to be? According to these characteristics explain the differences between the components which are mentioned in the text.

4. Explain the behaviour of electrons in stronium vanadate.

5. Explain the phrase: “Transparent metal sounds like an oximoron”

**Text 2: Reasearches want to use hardaware to fight computer viruses**

1) What is Ponomarev's project called?

2) Why might his project have national impact?

3) Explain in what way malware is increasing and also its consequences.

4) According to the researchers, what happens once an anomaly has been detected?

5) According to the project, the hardaware detector is not 100% accurate, so how is its effectiveness explained? Explain the procedure.

6) Explain the phrase "acting as a lookout"

7) Explain the comparison "like a canary in a coal mine". Find information in the Internet and connect it with the text.

**Text 3: Encryption method takes authentication to a new level, improves privacy protection**

1. What’s the purpose of developing new kinds of encryption methods?

2. What does this method combine?

3. What’s the risk in biometric authentication? What’s the strength of VVT’s method?

4. What’s the weakness of traditional authentication methods?

**Text 4: No GPS, no problem: Next-generation navigation**

1. What has the team of researhers at the University of California, Riverside developed?
2. What current technology can it complement? What would it enable?
3. What could this technology be used to?
4. What do navigation systems typically combine with? What happens when it loses touch with external signals?
5. Will current GPS/INS systems meet the demands of future autonomous vehicles? Yes/No. Give reasons.
6. Explain the different approach that these group of computer engineers (UCR's Bourns College of Engineering) have.
7. After reading the text, explain the title of this article.