**КОНТРОЛЬНАЯ РАБОТА**

**По дисциплине «Иностранный язык»**

**Направление 18.03.01 «Химическая технология»**

**2 семестр (полный курс)**

Для того чтобы правильно выполнить контрольную работу, необходимо усвоить следующие разделы курса.

1. Типы вопросов. Общий вопрос. Специальный вопрос. Альтернативный вопрос. Разделительный вопрос.
2. Степени сравнения имен прилагательных. Конструкция типа the more .. the less.
3. *Местоимения:* личные, притяжательные, вопросительные, указательные, неопределенные и отрицательные.
4. *Временные формы глаголов* Повелительное наклонение и его отрицательная форма. Инфинитив.
5. *Простое распространенное предложение:* прямой порядок слов повествовательного и побудительного предложений в утвердительной и отрицательных формах: обратный порядок слов вопросительного предложения. *Основные способы словообразования.*
6. *Лексикология.* Антонимы, синонимы.

**Вариант 1**

1. **Письменно переведите на русский язык следующий текст.**

**The early years**

Until the late 1970s, the computer was viewed as a massive machine that was useful to big business and big government but not to the general public. Computers were too cumbersome and expensive for private use, and most people were intimidated by them. As technology advanced, this was changed by a distinctive group of engineers and entrepreneurs who rushed to improve the designs of then current technology and to find ways to make the computer attractive to more people. Although these innovators of computer technology were very different from each other, they had a common enthusiasm for technical innovation and the capacity to foresee the potential of computers. This was a very competitive and stressful time, and the only people who succeeded were the ones who were able to combine extraordinary engineering expertise with progressive business skills and an ability to foresee the needs of the future.

Much of this activity was centered in the Silicon Valley in northern California where the first computer-related company had located in 1955. That company attracted thousands of related businesses, and the area became known as the technological capital of the world. Between 1981 and 1986, more than 1000 new technology-oriented businesses started there. At the busiest times, five or more, new companies started in a single week. The Silicon Valley attracted many risk-takers and gave them an opportunity to thrive in an atmosphere where creativity was expected and rewarded.

Robert Noyce was a risk-taker who was successful both as an engineer and as an entrepreneur. The son of an Iowa minister, he was informal, genuine, and methodical. Even when he was running one of the most successful businesses in the Silicon Valley, he dressed informally and his office was an open cubicle that looked like everyone else's. A graduate of the Massachusetts Institute of Technology (MIT), he started working for one of the first computer-related businesses in 1955. While working with these pioneers of computer engineering, he learned many things about computers and business management.

As an engineer, he co-invented the integrated circuit, which was the basis for later computer design. This integrated circuit was less than an eighth of an inch square but had the same power as a transistor unit that was over 15 inches square or a vacuum tube Unit that was 6.5 feet square. As a businessman, Noyce co-founded Intel, one of the most successful companies in the Silicon Valley and the first company to introduce the microprocessor. The microprocessor chip became the heart of the computer, making it possible for a large computer system that once filled an entire room to be contained on a small chip that could be held in one's hand. The directors of Intel could not have anticipated the effects that the microprocessor would have on the world. It made possible the invention of the personal computer and eventually led to the birth of thousands of new businesses. Noyce's contributions to the development of the integrated circuit and the microprocessor earned him both wealth and fame before his death in 1990. In fact, many people consider his role to be one of the most significant in the Silicon Valley story.

1. **Задайте 5 вопросов разного типа.**

**Вариант 2**

1. **Письменно переведите на русский язык следующий текст.**

**The first inventors**

The two men who first introduced the personal computer (PC) to the marketplace had backgrounds unlike Robert Noyce's. They had neither prestigious university education nor experience in big business. Twenty-year-old Steven Jobs and twenty-four-year-old Stephen Wozniak were college' drop-outs who had collaborated on their first project as computer hobbiests in a local computer club. Built in the garage of Jobs's parents, this first personal computer utilized the technology of Noyce's integrated circuit. It was typewriter-sized, as powerful as a much larger computer, and inexpensive to build. To Wozniak the new machine was a gadget to share with other members of their computer club. To Jobs, however, it was a product with great marketing potential for homes and small businesses. To raise the $1300 needed to fill their first orders Jobs sold his Volkswagen bus and Wozniak sold his scientific calculator. Wozniak built and delivered the first order of 100 computers in ten days. Lacking funds, he was forced to use the least expensive materials, the fewest chips, and the most creative arrangement of components. Jobs and Wozniak soon had more orders than they could fill with their makeshift production line.

 Jobs and Wozniak brought different abilities to their venture: Wozniak was the technological wizard, and Jobs was the entrepreneur. Wozniak designed the first model, and Jobs devised its applications and attracted interest from investors and buyers. Wozniak once admitted that without Jobs he would never have considered selling the computer or known how to do it. "Steve didn't do one circuit, design or piece of code. He's not really been into computers, and to this day he has never gone through a computer manual. But it never crossed my mind to sell computers. It was Steve who said, 'Let's hold them up and sell a few.

From the very beginning, Apple Computer had been sensitive to the needs of a general public that is intimidated by high technology. Jobs insisted that the computers be light, trim, and made in muted colors. He also insisted that the language used with the computers be "user-friendly" and that the operation be simple enough for the average person to learn in a few minutes. These features helped convince a skeptical public that the computer was practical for the home and small business. Jobs also introduced the idea of donating Apple Computers to thousands of California schools, thereby indirectly introducing his product into the homes of millions of students. Their second model, the Apple II, was the state-of-the-art PC in home and small business computers from 1977 to 1982. By 1983 the total company sales were almost $600 million, and it controlled 23 percent of the worldwide market in personal computers.

As the computer industry began to reach into homes and small businesses around the world, the need for many new products for the personal computer began to emerge. Martin Alpert, the founder of Tecmar, Inc., was one of the first people to foresee this need. When IBM released its first personal computer in 1981, Alpert bought the first two models. He took them apart and worked twenty-four hours a day to find out how other products could be attached to them. After two weeks, he emerged with the first computer peripherals for the IBM PC, and he later became one of the most successful creators of personal computer peripherals. For example, he designed memory extenders that enabled the computer to store more information, and insert able boards that allowed people to use different keyboards while sharing the same printer. After 1981, Tecmar produced an average of one new product per week.

Alpert had neither the technical training of Noyce nor the computer clubs of Jobs and Wozniak to encourage his interest in computer engineering. His parents were German refugees who worked in a factory and a bakery to pay for his college education. They insisted that he study medicine even though his interest was in electronics. Throughout medical school he studied electronics passionately but privately. He became a doctor, but practiced only part time while pursuing his preferred interest in electronics. His first electronics products were medical instruments that he built in his living room. His wife recognized the potential of his projects before he did, and enrolled in a graduate program in business management so she could run his electronics business successfully. Their annual sales reached $1 million, and they had 15 engineers working in their living room before they moved to a larger building in 1981. It wasn't until 1983 that Alpert stopped practicing medicine and gave his full attention to Tecmar. By 1984 Tecmar was valued at $150 million.

1. **Задайте 5 вопросов разного типа.**

**Вариант 3**

1. **Письменно переведите на русский язык следующий текст.**

**"Prehistory"**

Tools are any objects other than the parts of our own bodies that we use to help us do our work. Technology is nothing more than the use of tools. When you use a screwdriver, a hammer, or an axe, you are using technology just as much as when you use an automobile, a television set, or a computer.

We tend to think of technology as a human invention. But the reverse is closer to the truth. Stone tools found along with fossils show that our ape-like ancestors were already putting technology to use. Anthropologists speculate that using tools may have helped these creatures evolve into human beings; in a tool-using society, manual dexterity and intelligence count for more than brute strength. The clever rather than the strong inherited the earth.

Most of the tools we have invented have aided our bodies rather than our minds. These tools help us lift and move and cut and shape. Only quite recently, for the most part, have we developed tools to aid our minds as well.

The tools of communication, from pencil and paper to television, are designed to serve our minds. These devices transmit information or preserve it, but the do no modify it in any way (If the information is modified, this is considered a defect rather than a virtue, as when a defective radio distorts the music we're trying to hear.)

Our interest lies with machines that classify and modify information rather than merely transmitting it or preserving it. The machines that do this are the computers and the calculators, the so-called mind tools. The widespread use of machines for information processing is a modern development. But simple examples of information-processing machines can be traced back to ancient times. The following are some of the more important forerunners of the computer.

The Abacus. The abacus is the counting frame that was the most widely used device for doing arithmetic in ancient times and whose use persisted into modern times in the Orient. Early versions of the abacus consisted of a board with grooves I which pebbles could slide. The Latin word for pebbles is calculus, from which we get the words abacus and calculate.

Mechanical Calculators. In the seventeenth century, calculators more sophisticated than the abacus began to appear. Although a number of people contributed to their development, Blaise Pascal (French mathematician and philosopher) and Wilhelm von Leibniz (German mathematician, philosopher, and diplomat) usually are singled out as pioneers. The calculators Pascal and Leibniz built were unreliable, since the mechanical technology of the time was not capable of manufacturing the parts with sufficient precision. As manufacturing techniques improved, mechanical calculators eventually were perfected; they were used widely until they were replaced by electronic calculators in recent times.

The Jacquard Loom. Until modern times, most information-processing machines were designed to do arithmetic. An outstanding exception, however, was Jacquard's automated loom, a machine designed not for hard figures but beautiful patterns. A Jacquard loom weaves cloth containing a decorative patterns; the woven pattern is controlled by punched cards. Changing the punched cards changes the pattern the loom weaves. Jacquard loom came into widespread use in the early nineteenth century, and their descendants are still used today. The Jacquard loom is the ancestor not only of modern automated machine tools but of the player piano as well.

1. **Задайте 5 вопросов разного типа.**

**Вариант 4**

1. **Письменно переведите на русский язык следующий текст.**

**Computer crimes**

More and more, the operations of our businesses, governments, and financial institutions are controlled by information that exists only inside computer memories. Anyone clever enough to modify this information for his own purposes can reap substantial re wards. Even worse, a number of people who have done this and been caught at it have managed to get away without punishment.

These facts have not been lost on criminals or would-be criminals. A recent Stanford Research Institute study of computer abuse was based on 160 case histories, which probably are just the proverbial tip of the iceberg. After all, we only know about the unsuccessful crimes. How many successful ones have gone undetected is anybody's guess.

 Here are a few areas in which computer criminals have found the pickings all too easy.

Banking. All but the smallest banks now keep their accounts on computer files. Someone who knows how to change the numbers in the files can transfer funds at will. For instance, one programmer was caught having the computer transfer funds from other people's accounts to his wife's checking account. Often, tradition ally trained auditors don't know enough about the workings of computers to catch what is taking place right under their noses.

Business. A company that uses computers extensively offers many opportunities to both dishonest employees and clever outsiders. For instance, a thief can have the computer ship the company's products to addresses of his own choosing. Or he can have it issue checks to him or his confederates for imaginary supplies or ser vices. People have been caught doing both.

Credit Cards. There is a trend toward using cards similar to credit cards to gain access to funds through cash-dispensing terminals. Yet, in the past, organized crime has used stolen or counterfeit credit cards to finance its operations. Banks that offer after-hours or remote banking through cash-dispensing terminals may find themselves unwillingly subsidizing organized crime.

Theft of Information. Much personal information about individuals is now stored in computer files. An unauthorized person with access to this information could use it for blackmail. Also, confidential information about a company's products or operations can be stolen and sold to unscrupulous competitors. (One attempt at the latter came to light when the competitor turned out to be scrupulous and turned in the people who were trying to sell him stolen information.)

Software Theft. The software for a computer system is often more expensive than the hardware. Yet this expensive software is all too easy to copy. Crooked computer experts have devised a variety of tricks for getting these expensive programs printed out, punched on cards, recorded on tape, or otherwise delivered into their hands. This crime has even been perpetrated from remote terminals that access the computer over the telephone.

Theft of Time-Sharing Services. When the public is given access to a system, some members of the public often discover how to use the system in unauthorized ways. For example, there are the "phone freakers" who avoid long distance telephone charges by sending over their phones control signals that are identical to those used by the telephone company.

Since time-sharing systems often are accessible to anyone who dials the right telephone number, they are subject to the same kinds of manipulation.

1. **Задайте 5 вопросов разного типа.**

**Вариант 5**

1. **Письменно переведите на русский язык следующий текст.**

# Cyberterrorism

Defined broadly, the term "computer crime" could reasonably include awide variety of criminal offenses, activities, or issues. The potentialscope is even larger when using the frequent companion or substitute term"computer-related crime." Given the pervasiveness of computers in everydaylife, even in the lives of those who have never operated a computer, thereis almost always some nontrivial nexus between crime and computers.

By the FBI's definition, cyberterrorism is well beyond the scope ofthis paper. With increasing frequency this term is being used by the massmedia. Absent any evidence of activity, we'll leave it in the "eye of thebeholder" to determine whether cyberterrorism is currently being deterred,is a phantom menace…or somewhere in between.

A key distinction between electronic civil disobedience and politicizedhacking is anonymity. The motive for remaining secret is simple: themajority of politically motivated hacks are clearly illegal. Mostinstitutions recognize that breaking into an opponent's computer andadding, changing or deleting (HTML) code, even if it is juvenile graffiti,violates some other's rights. Attitudes and opinions begin to divergemarkedly around this point however. One person's activist is another'sterrorist.

"A lot of groups are claiming that they're hacking into sites for ahigher moral purpose, but they're hiding beyond anonymity or pseudonymity.Taking responsibility is not something we see happening."

At the heart of this discussion is the question of motive. Opinionsdiffer just as much within the hacker community as outside over theefficacy of certain actions. The spate of (zombie) DDoS attacks againstprominent e-commerce sites that occurred in February 2000 sparked a debatebetween two prominent hacker collectives. The Electrohippies Collectiveclaims the Internet as a public space liable to be used by groups andindividuals as a means of protest. As activists, they admit no practicaldifference between how cyberspace and the street are used by society.

Recent actions on the Internet against e-commerce sites represent afundamental disagreement about the purposes of the Internet, and theincreasing emphasis on the use of the 'Net as a vehicle for profitabletrade rather than of knowledge and discussion.

The cDc says, the targeted sites were selected for their namerecognition and prestige value, not for their commercial attributes oractivities.

You may make yourself feel good and get a lot of attention, but whenyou crack a Web site, you are violating another person's rights. …what doesthat mean? CRIME!

1. **Задайте 5 вопросов разного типа.**