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**ПРИ ПРАВИТЕЛЬСТВЕ РОССИЙСКОЙ ФЕДЕРАЦИИ»**

**ИНСТИТУТ ЗАОЧНОГО И ОТКРЫТОГО ОБРАЗОВАНИЯ**

**Департамент английского языка и профессиональной коммуникации**

**КОНТРОЛЬНАЯ РАБОТА**

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**Английский язык**

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Вариант № 3

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**Вариант 3**

**I. Read and translate the text. Write down your translation of the first paragraph.**

**Cyberspace**

1. Cyberspace is the notional environment in which communication over computer networks occurs. The word became popular in the 1990s when the uses of the Internet, networking, and digital communication were all growing dramatically and the term ‘cyberspace’ was able to represent the new ideas and phenomena that were emerging. The term ‘cyberspace’ first appeared in the work of [cyberpunk](https://en.wikipedia.org/wiki/Cyberpunk) science fiction author [William Gibson](https://en.wikipedia.org/wiki/William_Gibson) in his short story ‘[Burning Chrome](https://en.wikipedia.org/wiki/Burning_Chrome)’ in 1982. In the next few years, the word became prominently identified with online computer networks. Although the present-day, loose use of the term ‘cyberspace’ no longer implies or suggests immersion in a virtual reality, current technology allows the integration of a number of capabilities: sensors, signals, connections, transmissions, processors, and controllers sufficient to generate a [virtual](https://en.wikipedia.org/wiki/Virtuality) interactive experience that is accessible regardless of a geographic location.

2. Cyberspace is a domain characterized by the use of electronics and the electromagnetic spectrum to store, modify, and exchange data via networked systems and associated with physical infrastructures. In effect, cyberspace can be thought of as the interconnection of human beings through computers and telecommunication, without regard to physical geography. We say that images and text on the [Internet](http://www.dictionary.com/browse/internet) exist in cyberspace, for example. The term is also often used in conjunction with [virtual reality](http://www.dictionary.com/browse/virtual--reality), designating the imaginary place where virtual objects exist. For example, if a [computer](http://www.dictionary.com/browse/computer) produces a picture of a building that allows the architect to ‘walk’ through and see what a design would look like, the building is said to exist in cyberspace.

3. Cyberspace is a global and dynamic domain characterized by the combined use of electrons and electromagnetic spectrum, whose purpose is to create, store, modify, exchange, share and extract, use, eliminate information and disrupt physical resources.As a social experience, individuals can interact, exchange ideas, share information, provide social support, conduct business, direct actions, create artistic media, play games, engage in political discussion, and so on, using this global network.

**Выполнение**

1. Киберпространство-это условная среда, в которой происходит коммуникация по компьютерным сетям. Это слово стало популярным в 1990-х годах, когда использование интернета, сетей и цифровых коммуникаций резко возросло, и термин "киберпространство" смог отразить новые идеи и явления, которые возникали. Термин "киберпространство" впервые появился в работе киберпанковского писателя-фантаста Уильяма Гибсона в его рассказе "Горящий хром" в 1982 году. В последующие несколько лет это слово стало заметно отождествляться с онлайновыми компьютерными сетями. Хотя современное, свободное использование термина "киберпространство" больше не подразумевает и не предполагает погружения в виртуальную реальность, современные технологии позволяют интегрировать ряд возможностей: датчики, сигналы, соединения, передачи, процессоры и контроллеры, достаточные для создания виртуального интерактивного опыта, доступного независимо от географического местоположения.

2. Киберпространство-это область, характеризующаяся использованием электроники и электромагнитного спектра для хранения, изменения и обмена данными через сетевые системы и связанные с ними физические инфраструктуры. В сущности, киберпространство можно рассматривать как взаимосвязь людей посредством компьютеров и телекоммуникаций, без учета физической географии. Мы говорим, что изображения и текст в интернете существуют, например, в киберпространстве. Этот термин также часто используется в сочетании с виртуальной реальностью, обозначая воображаемое место, где существуют виртуальные объекты. Например, если компьютер создает изображение здания, которое позволяет архитектору "пройтись" по нему и посмотреть, как будет выглядеть проект, то считается, что здание существует в киберпространстве.

3. Киберпространство-это глобальная и динамическая область, характеризующаяся комбинированным использованием электронов и электромагнитного спектра, целью которой является создание, хранение, модификация, обмен, совместное использование и извлечение, использование, устранение информации и разрушение физических ресурсов. В качестве социального опыта индивиды могут взаимодействовать, обмениваться идеями, информацией, оказывать социальную поддержку, вести бизнес, направлять действия, создавать художественные средства массовой информации, играть в игры, участвовать в политических дискуссиях и т. д., используя эту глобальную сеть.

**II. Decide whether the following statements are a) true, b) false or c) information is not available in the text:**

1. Cyberspace is a domain characterized by the use of electronics and the electromagnetic spectrum to store, modify, and exchange data via networked systems and associated with physical infrastructures.

2. We can’t say that images and text on the [Internet](http://www.dictionary.com/browse/internet) exist in cyberspace.

3. [William Gibson](https://en.wikipedia.org/wiki/William_Gibson) was born in the coastal city of [Conway, South Carolina](https://en.wikipedia.org/wiki/Conway,_South_Carolina).

4. Cyberspace is a domain characterized by the use of electronics and the electromagnetic spectrum to store, modify, and exchange data via networked systems.

5. Cyberspace cannot be thought of as the interconnection of human beings through computers.

6. The term ‘cyberspace’ first appeared in the visual arts in the late 1960s.

7. Cyberspace is a global and dynamic domain characterized by the combined use of electrons and electromagnetic spectrum.

8. A distinctive and constitutive feature of cyberspace is that no central entity exercises control over all the networks that make up this new domain.

9. As a social experience, individuals can interact, exchange ideas, share information, provide social support and conduct business.

10. In 1989, [Autodesk](https://en.wikipedia.org/wiki/Autodesk), an American multinational corporation that focuses on 2D and 3D design software, developed a virtual design system called Cyberspace.

|  |  |  |  |  |  |  |  |  |  |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| a | b | c | a | b | b | a | с | a | с |
|  |  |  |  |  |  |  |  |  |  |

**III. Match the words (1-10) with their definitions (a-j):**

|  |  |
| --- | --- |
| **1. mailbot** | **a.** carrying out of two or more sequences of instructions at the same time in a computer |
| **2. mock-up** | **b.** duplicated or added as a precaution against failure, error, etc. |
| **3.** **morphing** | **c.** a software agent in a mail server that is typically used to send an automatic response to the sender |
| **4. multiprocessing** | **d.** a computer technique used for graphics and in films, in which one image is gradually transformed into another image without individual changes being noticeable in the process |
| **5.** **polymorphism** | **e.** a working full-scale model of a machine, apparatus, etc., for testing, research, etc. |
| **6. stream** | **f.**  the ability in computer programming to present the same programming interface for differing underlying forms (data types, classes) |
| **7. redundant** | **g.** to transfer (esp. audio or video data) in a continuous flow |
| **8. resolution** | **h.** a device that transmits and receives data using a modulated carrier wave |
| **9. pixel** | **i.** the number of [pixel](http://searchcio-midmarket.techtarget.com/definition/pixel)s (individual points of color) contained on a display monitor, expressed in terms of the number of pixels on the horizontal axis and the number on the vertical axis |
| **10. modem** | **k.** the basic unit of a digital image, representing a single color or level of brightness |

**Please, fill in this table with your answers:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| c | e | b | a | f | g | d | i | k | h |

**IV. Complete the sentences (1- 10) with the words (a-l). There are two extra words:**

**a)** trading

**b)** securities

**c)** headquartered

**d)** development

**e)** produce

**f)** industry

**g)** separated

**h)** globalised

**i)** income

**j)** affiliates

**k)** industrial

**l)** cyberspace

1. Samsung Group is a South Korean [multinational](https://en.wikipedia.org/wiki/Multinational_corporation) [conglomerate](https://en.wikipedia.org/wiki/Conglomerate_(company)) ……. in [Samsung Town](https://en.wikipedia.org/wiki/Samsung_Town), [Seoul](https://en.wikipedia.org/wiki/Seoul).

2. Samsung was founded by [Lee Byung-chul](https://en.wikipedia.org/wiki/Lee_Byung-chul) in 1938 as a [……. company](https://en.wikipedia.org/wiki/Trading_company).

3. Over the next three decades, the group diversified into areas including food processing, textiles, insurance, ……. and retail.

4. Samsung entered the [electronics](https://en.wikipedia.org/wiki/Electronics_industry) ……. in the late 1960s and the construction and shipbuilding industries in the mid -1970s.

5. Following Lee's death in 1987, Samsung was ……. into four business groups – Samsung Group, [Shinsegae](https://en.wikipedia.org/wiki/Shinsegae) Group, [CJ Group](https://en.wikipedia.org/wiki/CJ_Group) and [Hansol](https://en.wikipedia.org/wiki/Hansol) Group.

6. Since 1990, Samsung has increasingly ……. its activities.

7. Mobile phones and semiconductors have become its most important source of ……. .

8. Notable Samsung industrial ……. include [Samsung Electronics](https://en.wikipedia.org/wiki/Samsung_Electronics), [Samsung Heavy Industries](https://en.wikipedia.org/wiki/Samsung_Heavy_Industries), [Samsung Engineering](https://en.wikipedia.org/wiki/Samsung_Engineering), and [Samsung C&T](https://en.wikipedia.org/wiki/Samsung_C%26T).

9. Samsung has a powerful influence on South Korea's economic ……. , politics, media and culture.

10. Its affiliate companies ……. around a fifth of South Korea's total exports.

**Please, fill in this table with your answers:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| c | a | b | f | g | h | i | j | d | e |

**V. Match (1-10) with (a-j) to make up sentences:**

|  |  |
| --- | --- |
| **1.** The competitiveness of most companies is based | **a.**  to track, store, manipulate and distribute the information from gathered data to appropriate persons when necessary. |
| **2.** Information systems are used | **b.** on the effective use of information technologies and information systems. |
| **3.** The efficient usage of information systems will give a lot of opportunities | **c.** to be open anytime anywhere all over the globe. |
| **4.** By implementing information systems sharing the information, knowledge, communication and relationships between different countries becomes much easier. | **d.** to the companies and advantages to their business. |
| **5.** Information systems has made it possible for businesses | **e.** between different countries becomes much easier. |
| **6.** One of the best advantages of information systems is | **f.** the creation of new and interesting jobs. |
| **7.** Computer programmers, Systems analyzers, Hardware and Software developers and Web designers are | **g.** as since technology keeps on changing with each day. |
| **8.** Implementing the information systems can save | **h.** just some of the many new employment opportunities created with the help of IT. |
| **9.**  Industry experts believe that the Internet has made job security a big issue | **i.** a great deal of time during the completion of tasks and some labor mechanic works. |
| **10.** The hackers distribute the information over the Internet, sell it to rival companies or use it | **j.**  to damage the company’s image. |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| b | a | d | e | f | c | h | i | g | j |

**Please, fill in this table with your answers:**

**VI. Complete the sentences (1-10) with a) *a*, b) *an*, c) *the* or d) *no article:***

1. Modems are generally classified by ..... maximum amount of data they can send in a given [unit of time](https://en.wikipedia.org/wiki/Time_unit), expressed in [bits per second](https://en.wikipedia.org/wiki/Bits_per_second).

2. ICT provides ….. benefits in terms of production, quality, lowering expenses and communicating.

3. Modems can also be classified by their [symbol rate](https://en.wikipedia.org/wiki/Symbol_rate), measured in .....  [baud](https://en.wikipedia.org/wiki/Baud).

4. The baud unit denotes symbols per second, or the number of times per second the modem sends ..... new signal.

5. Modems grew out of ..... need to connect  [teleprinters](https://en.wikipedia.org/wiki/Teleprinter)  over ordinary phone lines instead of the more expensive leased lines which had previously been used for [current loop](https://en.wikipedia.org/wiki/Current_loop)–based teleprinters and automated [telegraphs](https://en.wikipedia.org/wiki/Telegraph).

6. Digitalization is … process of converting information into a [digital](https://en.wikipedia.org/wiki/Digital_data) format.

7. The digitized data is in the form of … [binary numbers](https://en.wikipedia.org/wiki/Binary_number), which facilitate computer processing and other operations.

8. Digitalization simply means the conversion of analog source material into … numerical format.

9. Digitalization can, in practical terms, only ever be … [approximation](https://en.wikipedia.org/wiki/Approximation) of the signal it represents.

10. Digitalization is … primary way of storing images in a form suitable for [transmission](https://en.wikipedia.org/wiki/Transmission_(telecommunications)) and [computer](https://en.wikipedia.org/wiki/Computer) processing.

**Please, fill in this table with your answers:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| c | d | d | a | c | c | d | a | b | c |

**VII. Put the words (1-10) in the correct order to make up sentences:**

1. is, dictionaries, used, produce, Multimedia, and, to, encyclopedias.

*Multimedia is used to produce dictionaries and encyclopedias*

2.digital, computing, refers, to, in, recording, Video, manipulating, and, storing, video, format.

*Video computing refers to recording, manipulating and storing video in digital format.*

3. would, If, you, to, make, a, movie, on, digital, wanted, your, computer, first, you, need, to, capture, them, images, with, a, video, camera, and, then, transfer, to, your, computer.

*If you wanted to make a movie on your computer, first you would need to capture images with a digital video camera and then transfer them to your computer.*

4. now, The, Encyclopedia, available, Britannica, is, online.

*The Encyclopaedia Britannica now is available online*

5. courses, available, on, history, languages, Educational, science, and, foreign, are, online.

*Educational foreign languages, science and history courses are available on online.*

6. By, 40, percent, February, of, sales, came, 2015, from, non-PC, AMD's, markets.

*By February 2015, roughly 40 percent of AMD's sales came from non-PC markets*

7. In, January, on, Lisa Su, 2016, announced, AMD, was, that, working, new, chips.

*In January 2016, Su announced that AMD was working on new chips*

8. Lisa Su, of, serves, on, currently, the, boards, [Analog, Devices](https://en.wikipedia.org/wiki/Analog_Devices).

*Lisa Su currently serves on the boards of Analog Devices*

9. has, been, Lisa Su, recognized, a, number, of, awards, throughout, her, with, career.

*Lisa Su has been recognized with a number of awards throughout her career*

10. in, AMD's, value, share, spiked, July, 2020.

*AMD's value share spiked in July 2020*

# VIII. Listen to the text *How Property Management Benefits from Digitalization?* using <https://www.youtube.com/watch?v=J8_pmdBd6Vw>and answer the following questions:

**1.** Why do people demand more energy efficient buildings?

Because people demand fresh and clear air and pleasant temperatures all day long, and that buildings stand the test of time in good condition

**2.** Why should our society invest in people not in walls?

Because in the future it will save our health and the health of our loved ones.

**3.** How does property management benefit from digitalization?

Once the sensors are installed in some vital security systems (such as ventilation systems or building foundations) , this will help prevent harmful sources from affecting people's lives and health.

**IX. Complete the sentences (1-5) with the most suitable preposition (a-e):**

1. The progress of electronic commerce ...... the Internet has resulted in a dramatic growth in digital interpersonal communications, distribution of products, and business transactions.

a) among b) for c) between d) over e) from

## 2. ..... the emergence of [smartphones](http://www.britannica.com/technology/smartphone), [tablets](http://www.britannica.com/technology/tablet-computer), and other computer-based mobile devices, information systems have been extended to support mobility as the natural human condition.

a) in b) for c) with d) on e) among

3. Information systems have a great influence ..... society.

a) over b) in c) by d) with e) between

4. Information systems have quickened the pace of daily activities, affected the structure of organizations, changed the type of products bought, and influenced the nature ..... work.

a) from b) between c) by d) of e) in

5. Individuals may own multiple computers ..... the form of smartphones and other portable devices.

a) for b) by c) in d) between e) among

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 |
| d | a | b | d | d |

**Please, fill in this table with your answers:**

**X. Сomplete the sentences with the correct form of the words in capitals:**

1.Robots are [artificial agents](https://en.wikipedia.org/wiki/Artificial_agents) with capacities of ***perception*** and action in the physical world often referred by researchers as workspace. **PERCEIVE**

2. Human–robot interaction is a multidisciplinary field with ***contributions*** from [human–computer interaction](https://en.wikipedia.org/wiki/Human%E2%80%93computer_interaction), [artificial intelligence](https://en.wikipedia.org/wiki/Artificial_intelligence), [robotics](https://en.wikipedia.org/wiki/Robotics), [natural language understanding](https://en.wikipedia.org/wiki/Natural_language_understanding), [design](https://en.wikipedia.org/wiki/Design), and [social sciences](https://en.wikipedia.org/wiki/Social_science). **CONTRIBUTE**

3. Human–robot interaction has been a topic of both science fiction and academic ***speculation*** even before any robots existed. **SPECULATE**

4. The closer the human and the robot get and the more intricate the relationship becomes, the more the risk of a human being injured ***rises*** . **RISE**

5. Nowadays in advanced societies, manufacturers ***employing*** robots solve this issue by not letting humans and robots share the workspace at any time. **EMPLOY**