# Комплект оценочных материалов по дисциплине «Профессиональный иностранный язык» (английский)

### Задания закрытого типа

#### Задания закрытого типа на выбор правильного ответа

1. *Выберите один правильный ответ.*

A CV \_\_\_\_ be printed on good-quality paper.

А) have

Б) need

В) should

Правильный ответ: В

Компетенции (индикаторы): УК-4

2. *Выберите один правильный ответ.*

The corporation terminated the plant, \_\_\_\_ many workers unemployed.

А) been left

Б) leaving

В) leave

Правильный ответ: Б

Компетенции (индикаторы): УК-4

3. *Выберите один правильный ответ.*

The main task for the team is \_\_\_\_ the current application.

А) debugging

Б) debug

В) was debugging

Правильный ответ: А

Компетенции (индикаторы): УК-4

4. *Выберите один правильный ответ.*

It's important for developers \_\_\_\_ new programming languages.

А) learn

Б) learning

В) to learn

Правильный ответ: В

Компетенции (индикаторы): УК-4

5. *Выберите один правильный ответ.*

Once research has been conducted, a scientific report \_\_\_\_ written.

А) should to be

Б) should be

В) must been

Правильный ответ: Б

Компетенции (индикаторы): ПК-1

6. *Выберите один правильный ответ.*

A scientific research \_\_\_\_ should include an introduction, procedure, results, discussion and references.

А) report

Б) equipment

В) steps

Правильный ответ: А

Компетенции (индикаторы): ПК-1

7. *Выберите один правильный ответ.*

Scientific researches are studies that should be systematically planned before \_\_\_\_ them.

А) perform

Б) to perform

В) performing

Правильный ответ: В

Компетенции (индикаторы): ПК-1

8. *Выберите один правильный ответ.*

Researchers use analytical research to explain \_\_\_\_ phenomena occur.

А) because

Б) why

В) as

Правильный ответ: Б

Компетенции (индикаторы): ПК-1

9. *Выберите один правильный ответ.*

Organizations, researchers, and individuals are continually \_\_\_\_ giant amounts of data.

А) generated

Б) generating

В) been generated

Правильный ответ: Б

Компетенции (индикаторы): ПК-2

10. *Выберите один правильный ответ.*

Data analysis is the technique of inspecting, cleaning, transforming, and interpreting data \_\_\_\_ meaningful patterns trends, and insights.

А) to find out

Б) would find out

В) found out

Правильный ответ: А

Компетенции (индикаторы): ПК-2

11. *Выберите один правильный ответ.*

MathWorks is a software company known \_\_\_\_ MATLAB and Simulink, widely used in engineering, science, and academia.

А) for to develop

Б) for developing

В) for been developed

Правильный ответ: Б

Компетенции (индикаторы): ПК-2

#### Задания закрытого типа на установление соответствия

1. *Установите правильное соответствие между частями предложений, чтобы получить фразы, используемые при приёме на работу. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| 1) I'm really excited about | А) updated your resume? |
| 2) That's great! Have you | Б) applying for that system manager position. |
| 3) Yes, I included my recent | В) highlight your accomplishments there. |
| 4) Good idea! Make sure to | Г) internship experience. |
|  | Д) That’s important! |

Правильный ответ:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| Б | А | Г | В |

Компетенции (индикаторы): УК-4

2. *Установите правильное соответствие между предложениями, описывающими проблемы и их решения. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| 1) My computer is behaving strangely. I think it’s got a virus. | А) You may have made a mistake while typing your password. Try typing it again. |
| 2) I get a 401 message! I’m unauthorized, not allowed to enter that website. | Б) That message shows the web server is busy. Why don’t you wait and try again later? |
| 3) I’ve tried to access a website but I get a 404 NOT FOUND message. | В) Run the clean cartridge routine or wipe them with a cloth and distilled water. |
| 4) My printer is producing fuzzy. | Г) Haven’t you got any antivirus software installed? If I were you, I’d try a free online scan. |
|  | Д) Why don’t you reset the refresh rate of your monitor? |

Правильный ответ:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| Г | А | Б | В |

Компетенции (индикаторы): УК-4

3. *Установите правильное соответствие между вопросами и ответами. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| Вопросы | Ответы |
| 1) What do you think about the role of communication in our field? | А) He reads IT blogs and attends conferences whenever possible. |
| 2) How does he stay up-to-date with the latest trends and tools in IT? | Б) It’s crucial, as I often have to explain complex concepts to non-technical stakeholders. |
| 3) What programming languages is she most comfortable with? | В) She's primarily a Python and JavaScript developer, but she also has experience in Java and C+. |
| 4) Have you ever faced a situation where a project was falling behind schedule? | Г) Her ability to adapt to new technologies quickly. |
|  | Д) Yes, and in that case, we had to prioritize tasks and improve team collaboration. |

Правильный ответ:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| Б | А | В | Д |

Компетенции (индикаторы): УК-4

4. *Установите правильное соответствие между понятиями и их определениями. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| Понятия | Определения |
| 1) A bridge | А) is an interface that enables dissimilar networks to communicate, such as two LANs based on different topologies or network operating systems. |
| 2) A gateway | Б) is systematic series of steps that provide a solution to a problem. |
| 3) A modem | В) is a device for converting digital signals to analogue signals and vice versa to enable a computer to transmit and receive data using an ordinary telephone line. |
| 4) A backbone | Г) is the main transmission path, handling the major data |
|  | Д) is a hardware and software combination used to connect the same type of networks. |

Правильный ответ:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| Д | А | В | Г |

Компетенции (индикаторы): УК-4

5. *Установите правильное соответствие между понятиями и их определениями. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| Понятия | Определения |
| 1) Laboratory experiments | А) research conducted in a real-life setting with no intervention from the researcher. |
| 2) Field research | Б) research carried out in a controlled environment. |
| 3) Natural experiments | В) research carried out in a real-life setting. Here the researcher manipulates the independent variable. |

Правильный ответ:

|  |  |  |
| --- | --- | --- |
| 1 | 2 | 3 |
| Б | В | А |

Компетенции (индикаторы): ПК-1

6. *Установите правильное соответствие между частями вопросительных предложений. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| 1) She has just finished her report, | А) did he? |
| 2) He didn't complete the task yesterday, | Б) can they? |
| 3) They can't discuss this issue now, | В) wasn't he? |
| 4) He was a prominent scientist, | Г) hasn't she? |
|  | Д) must they? |

Правильный ответ:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| Г | А | Б | В |

Компетенции (индикаторы): ПК-1

7. *Установите правильное соответствие между вопросами и ответами. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| Вопросы | Ответы |
| 1) What are you studying now? | А) No, we can't. We haven't prepared for it yet. |
| 2) Can we conduct the research this winter? | Б) No, I haven't. But I'm going to read it next week. |
| 3) Have you ever read this article? | В) I am studying new data storage technologies. |
| 4) When will they finish their research? | Г) By the end of this week, I hope. |
|  | Д) I am a scientist. |

Правильный ответ:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| В | А | Б | Г |

Компетенции (индикаторы): ПК-1

8. *Установите правильное соответствие между понятиями и их определениями. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| Понятия | Определения |
| 1) Fundamental Research | А) a type of research method that is used to describe characteristics of a population or phenomenon being studied. It does not answer questions about how or why things are the way they are. Instead, it focuses on providing a snapshot of current conditions or describing what exists. |
| 2) Descriptive research | Б) a type of research that seeks to understand the underlying factors or causes behind phenomena or relationships. It goes beyond descriptive research by attempting to explain why things happen and how they happen. |
| 3) Analytical research | В) also known as basic research or pure research, is a type of scientific research method that aims to expand the existing knowledge base. It is driven by curiosity, interest in a particular subject, or the pursuit of knowledge for knowledge's sake, rather than with a specific practical application in mind. |

Правильный ответ:

|  |  |  |
| --- | --- | --- |
| 1 | 2 | 3 |
| В | А | Б |

Компетенции (индикаторы): ПК-1

9. *Установите правильное соответствие между понятиями и их определениями. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| Понятия | Определения |
| 1) A storage medium | А) a hardware component of a computer system that displays information to users e.g. monitor, printer, etc. |
| 2) An input device | Б) a storage device in its entirety or to an individual component that's used in conjunction with or is part of another system. |
| 3) An output device | В) any hardware component that allows users to enter data and instructions into a computer. |

Правильный ответ:

|  |  |  |
| --- | --- | --- |
| 1 | 2 | 3 |
| Б | В | А |

Компетенции (индикаторы): ПК-2

10. *Установите правильное соответствие между вопросами и ответами. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| Вопросы | Ответы |
| 1) What programming languages do you know? | А) Yes, it is very efficient for that task. |
| 2) Is Python suitable for data analysis? | Б) I know Java and Python. |
| 3) Have you installed the new software? | В) He is using a relational database. |
| 4) What type of database is he using? | Г) No, I haven't had the chance yet. |
|  | Д) Yes, I can do that. |

Правильный ответ:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| Б | А | Г | В |

Компетенции (индикаторы): ПК-2

11. *Установите правильное соответствие между вопросами и ответами. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| Вопросы | Ответы |
| 1) Can you share your screen during the online meeting? | А) No, I haven't. Nevertheless, Denis did it yesterday. |
| 2) Have you backed up the data? | Б) He started last year. |
| 3) When did he start learning programming? | В) They usually update it every month. |
| 4) When do they usually update their software? | Г) Yes, I can do that. |
|  | Д) We use two-factor authentication. |

Правильный ответ:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| Г | А | Б | В |

Компетенции (индикаторы): ПК-2

12. *Установите правильное соответствие между вопросами и ответами. Каждому элементу левого столбца соответствует только один элемент правого столбца.*

|  |  |
| --- | --- |
| Вопросы | Ответы |
| 1) How do you secure your online accounts? | А) No, I haven’t, but I plan to learn. |
| 2) What tools does he use for project management? | Б) I use two-factor authentication and reliable passwords. |
| 3) Have you ever designed a website? | В) She will start it next month. |
| 4) When will she start the new IT project? | Г) He uses Trello and Asana for project management. |
|  | Д) They are using a relational database. |

Правильный ответ:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | 2 | 3 | 4 |
| Б | Г | А | В |

Компетенции (индикаторы): ПК-2

#### Задания закрытого типа на установление правильной последовательности

1. *Установите правильную последовательность смысловых блоков, чтобы получить электронное письмо.*

А) Please let me know if you can schedule an appointment with me and Mr. Green. I look forward to your response.

Б) Dear Mr. Johnson

В) I’m writing to ask for your help. I know you work with Mr Green, an excellent system analyst. That’s why I would like to ask him to help me with my current project. Would you be so kind as to introduce me to Mr Green? I would be very grateful to you.

Г) Respectfully yours,

Richard Smith

Правильный ответ: Б, В, А, Г

Компетенции (индикаторы): УК-4

2. *Прочитайте текст и установите правильную последовательность тем, которые в нем поднимаются.*

The C programming language is a general-purpose and high-level language that facilitates structured programming. C was later on chosen as a system development language because it generates code that executes almost as quickly as an assembly language code. It follows a top-down approach in solving a problem and supports modular programming, which allows developers to break down the code into smaller, reusable components.

The C programming language was created by Dennis Ritchie at Bell Labs in 1972 to allow utilities to run on Unix systems. Because C programs are fast, they allow programmers to manually control computer hardware.

C is a widely used programming language that has many advantages. One of the main advantages of C is its efficiency and speed. C is a low-level programming language that provides direct access to memory and hardware, making it ideal for developing system software and other applications that require high performance. C is also a portable language that can be compiled and executed on various operating systems, making it a popular choice for developing cross-platform applications.

One of the main disadvantages of C is its lack of memory management, which can lead to memory leaks and other memory-related issues if not handled properly. Additionally, C can be a difficult language to learn for beginners due to its low-level constructs and lack of built-in abstractions*.*

А) advantages of the C programming language

Б) features of the C programming language

В) disadvantages of the C programming language

Г) the history of the creation of the C programming language

Правильный ответ: Б, Г, А, В

Компетенции (индикаторы): УК-4

3. *Установите правильную последовательность фраз, чтобы получить инструкцию по теме "How to scan a printed document using a scanner".*

А) Save the file when done.

Б) Click the "Scan" button to start the scanning.

В) Open the scanning software on your computer.

Г) First, place the printed document face down on the scanner glass.

Д) Choose the scanning options, such as file format and resolution.

Правильный ответ: Г, В, Д, Б, А

Компетенции (индикаторы): УК-4

4. *Установите правильную последовательность фраз, чтобы получить инструкцию по теме "* *How to develop a website".*

А) Analyse the information from the customer.

Б) Create a website specification. After that, design and develop the website.

В) First, discuss with the customer their requirements and the target audience.

Г) Test the website.

Д) Publish the website, update and maintain it on an ongoing basis.

Правильный ответ: В, А, Б, Г, Д

Компетенции (индикаторы): УК-4

5. *Расположите смысловые блоки текста в правильном порядке, чтоб получить описание этапов научно-исследовательского процесса.*

А) After selecting and understanding the topic, an analysis of the state of development of an individual problem in modern science is carried out. Researchers should conduct background research before conducting research and make a guess/prediction of what they expect to happen when testing the hypothesis.

Б) Conclusions are made. The researcher should state whether the hypothesis was accepted or rejected, provide general feedback on their research (strengths/weaknesses), and acknowledge how the results will be used to make new hypotheses. This will indicate the next direction that research should take.

В) The realization of concrete research work is carried out in several stages. On the first stage, subject and purpose of the research work are formed, literary sources are recommended.

Г) Then, experiment takes place. Data is collected and interpreted. The researcher should analyse the gathered data to identify if it supports or rejects the hypothesis proposed.

Правильный ответ: В, А, Г, Б

Компетенции (индикаторы): ПК-1

6. *Установите правильную последовательность этапов научно-исследовательского процесса.*

А) Research: Find out about the topic

Б) Conclusion: Compare the hypothesis with the experiment results

В) Hypothesis: Predict the outcome of the problem

Г) Purpose: State the problem

Д) Analysis: Record the results of the experiment

Е) Experiment: Develop a procedure to test the hypothesis

Правильный ответ: Г, А, В, Е, Д, Б

Компетенции (индикаторы): ПК-1

7. *Расставьте реплики диалога в правильном порядке.*

А) – We are developing a new data storage system.

Б) – Oh, that sounds great. Good luck!

В) – Good morning, Mr.Ferguson. We are talking about our new important project.

Г) – Good morning, dear colleagues. What are you discussing?

Д) – What project are you working on?

Правильный ответ: Г, В, Д, А, Б

Компетенции (индикаторы): ПК-1

8. *Прочитайте текст и установите правильную последовательность тем, которые в нем поднимаются.*

Java is a popular high-level programming language that was developed by Sun Microsystems in the mid-1990s. It is designed to be platform-independent at both the source and binary levels, which means that Java applications can be executed on any device that has a Java Virtual Machine (JVM).

One of Java's significant advantages is its security features, making it suitable for web and enterprise applications. Java also supports multithreading, which allows multiple processes to run concurrently, improving efficiency.

On the downside, Java can be more verbose than some other programming languages, which may lead to longer development times. The performance of Java applications can also be a concern, as they may not run as quickly as programs written in languages like C++.

А) advantages of Java

Б) features of the Java

В) disadvantages of Java

Г) the history of the creation of Java

Правильный ответ: Г, Б, А, В

Компетенции (индикаторы): ПК-2

9. *Установите правильную последовательность действий, чтобы получить инструкцию по теме "How to install new software".*

А) Verify the software operates correctly

Б) Read the system requirements of the software

В) Follow the installation instructions

Г) Run the installation file

Д) Download the software from the official website

Правильный ответ: Б, Д, Г, В, А

Компетенции (индикаторы): ПК-2

10. *Установите правильную последовательность действий, чтобы получить инструкцию по теме "How to analyze data".*

А) Analyze the data using chosen methods.

Б) Select appropriate analytical methods.

В) Interpret the results and draw conclusions.

Г) Identify the data sources and gather data. Clean and preprocess the data.

Д) Present findings and prepare documentation.

Правильный ответ: Г, Б, А, В, Д

Компетенции (индикаторы): ПК-2

### Задания открытого типа

#### Задания открытого типа на дополнение

1. *Прочитайте и дополните одним словом.*

The practice of protecting systems, networks, and programs from digital attacks, ensuring confidentiality, integrity, and availability of information. This practice is called \_\_\_\_\_\_\_.

Правильный ответ: a cybersecurity / the cybersecurity/ cybersecurity

Компетенции (индикаторы): УК-4

2. *Прочитайте и дополните предложение одним словом.*

A decentralized digital ledger technology that enables secure and transparent record-keeping of transactions across a distributed network of computers, is called\_\_\_\_\_\_\_.

Правильный ответ: blockchain

Компетенции (индикаторы): УК-4

3. *Прочитайте и дополните одним словом.*

\_\_\_\_\_\_\_ is a branch of computer science focused on creating systems capable of performing tasks that typically require human intelligence, such as understanding natural language, recognizing patterns, solving problems, and making decisions.

Правильный ответ: Artificial Intelligence / artificial intelligence

Компетенции (индикаторы): УК-4

4. *Прочитайте и дополните предложение одним словосочетанием.*

\_\_\_\_\_\_\_ is essentially an ecosystem of physical devices, vehicles, appliances, and other things that have the ability to connect, collect and exchange data over a wired and wireless network, with little or no human-to-human or human-to-computer intervention.

Правильный ответ: The Internet of Things / IoT / Internet of Things / Internet of things

Компетенции (индикаторы): УК-4

5. *Прочитайте и дополните одним словом.*

When choosing a research topic, one should take into account some universal rules: it should be narrow enough to be covered within a relatively small volume of work, but at the same time important enough to attract the attention of the researcher. In short, a research topic should be narrow and \_\_\_\_\_\_\_.

Правильный ответ: important

Компетенции (индикаторы): ПК-1

6. *Прочитайте и дополните одним словом.*

The topic of the scientific work is a broader concept than the research tasks. If the topic outlines the phenomenon or plot that the student is focusing on, then the research tasks are the detailed plan of research that the author will implement. In short, the \_\_\_\_\_\_ is something that the student is interested in and the research task is what the student will do to learn more about it.

Правильный ответ: topic

Компетенции (индикаторы): ПК-1

7. *Прочитайте и дополните одним словосочетанием.*

A \_\_\_\_\_\_\_ is a type of removable storage medium that attaches to a server or other device through a USB port. It seldom connects continuously to a device, which can make it less susceptible to viruses or worms.

Правильный ответ: USB flash drive / flash drive / pen drive

Компетенции (индикаторы): ПК-1

8. *Прочитайте и дополните одним словом.*

Types of \_\_\_\_\_\_\_ storage media include Blu-ray discs, DVDs, CDs and CD-ROMs (for read-only data). Optical discs are now used primarily for prerecorded audio and video recordings or for backup and archival purposes.

Правильный ответ: optical

Компетенции (индикаторы): ПК-1

9. *Прочитайте и дополните предложение одним словом.*

A \_\_\_\_\_\_\_ is a type of computer program that is designed to help the user complete a specific task, often enhancing productivity, such as word processing or spreadsheet management.

Правильный ответ: application software / software application / app / software

Компетенции (индикаторы): ПК-2

10. *Прочитайте и дополните предложение одним словом.*

A \_\_\_\_\_\_\_ is a network device that forwards data packets between computer networks, acting like a post office to ensure that your data reaches the intended destination.

Правильный ответ: router / WiFi router / wifi router

Компетенции (индикаторы): ПК-2

11. *Прочитайте и дополните одним словосочетанием.*

A \_\_\_\_\_\_\_ is a type of removable storage medium that attaches to a server or other device through a USB port. It seldom connects continuously to a device, which can make it less susceptible to viruses or worms.

Правильный ответ: USB flash drive / flash drive / pen drive / external hard drive

Компетенции (индикаторы): ПК-2

12. *Прочитайте и дополните предложение одним словом.*

A \_\_\_\_\_\_\_ is a device that produces a hard copy of a digital document or image, typically using ink or toner, and can connect to a computer or network to receive print jobs.

Правильный ответ: printer

Компетенции (индикаторы): ПК-2

#### Задания открытого типа с кратким свободным ответом

1. *Прочитайте текст и ответьте на вопрос.*

What techniques are used to produce a lightweight display screen?

|  |  |
| --- | --- |
|  | About this item:  A laptop is an extremely light-weight personal computer. Laptops typically weigh less than six pounds and are small enough to fit easily in a briefcase.  Laptops use a variety of techniques, known as flat-panel technologies, to produce a lightweight and non-bulky display screen.  In terms of computing power, modern laptops are nearly equivalent to personal computers. They have the same CPUs, memory capacity and disk drives. |

Правильный ответ: flat-panel technologies / flat-panel technology / the flat-panel technology

Компетенции (индикаторы): УК-4

2. *Прочитайте текст и дополните предложение в соответствии с информацией из текста.*

Excel is ideal for making invoices, entering, calculating and analyzing company data such as \_\_\_\_\_\_.

|  |  |
| --- | --- |
| Picture background | Microsoft Excel is a spreadsheet program used to store and retrieve numerical data in a format of columns and rows. Microsoft Excel is a commercial spreadsheet application. It helps you manage personal or business finances. Excel is ideal for making invoices, entering, calculating and analyzing company data such as sales figures. Nearly 30 years after it's initial introduction, Excel remains the world’s leading spreadsheet software. |

Правильный ответ: sales figures

Компетенции (индикаторы): УК-4

3. *Прочитайте описание технологии и напишите расшифровку аббревиатуры её названия на английском языке (название должно начинаться с заглавной/прописной буквы).*

CAD is the use of computers (or workstations) to aid in the creation, modification, analysis, or optimization of a design.  This software is used to increase the productivity of the designer, improve the quality of design, improve communications through documentation, and to create a database for manufacturing. CAD stands for \_\_\_\_\_\_.

Правильный ответ: Computer-aided design

Компетенции (индикаторы): УК-4

4. *Прочитайте текст и ответьте на вопрос.*

What is the storage capacity of this laptop's hard drive?

|  |  |
| --- | --- |
|  | About this item:  Features Latest Intel Core Ultra 9-185H 2.3GHz processor delivers outstanding performance  Stunning 14" FHD 1920x1080 bright display providing crisp and sharp visuals  32GB DDR5 RAM Memory Provides Enhanced multitasking and Improved performance  1TB SSD gives significantly faster speed and improved overall system responsiveness |

Правильный ответ: 1TB

Компетенции (индикаторы): ПК-1

5. *Прочитайте текст и ответьте на вопрос.*

What type of RAM is built into this laptop?

|  |  |
| --- | --- |
|  | About this item:  Features Latest Intel Core Ultra 9-185H 2.3GHz processor delivers outstanding performance  Stunning 14" FHD 1920x1080 bright display providing crisp and sharp visuals  32GB DDR5 RAM Memory Provides Enhanced multitasking and Improved performance  1TB SSD gives significantly faster speed and improved overall system responsiveness |

Правильный ответ: 32GB DDR5 RAM / 32GB DDR5 / DDR5 RAM / DDR5 RAM

Компетенции (индикаторы): ПК-1

6. *Назовите данную группу предметов одним словосочетанием.*

A mouse

A keyboard

A microphone

A joystick

A scanner

A webcam

Правильный ответ: input devices / input device

Компетенции (индикаторы): ПК-1

7. *Назовите данную группу предметов одним словосочетанием.*

A monitor

A printer

A plotter

A projector

Speakers

Headphones

Правильный ответ: output devices / output device

Компетенции (индикаторы): ПК-1

8. *Прочитайте текст и ответьте на вопрос.*

What is the clock speed of this laptop's processor?

|  |  |
| --- | --- |
|  | About this item:  Features Latest Intel Core Ultra 9-185H 2.3GHz processor delivers outstanding performance  Stunning 14" FHD 1920x1080 bright display providing crisp and sharp visuals  32GB DDR5 RAM Memory Provides Enhanced multitasking and Improved performance  1TB SSD gives significantly faster speed and improved overall system responsiveness |

Правильный ответ: 2.3GHz

Компетенции (индикаторы): ПК-2

9. *Прочитайте текст и ответьте на вопрос.*

What is the size of the laptop's screen?

|  |  |
| --- | --- |
|  | About this item:  Features Latest Intel Core Ultra 9-185H 2.3GHz processor delivers outstanding performance  Stunning 14" FHD 1920x1080 bright display providing crisp and sharp visuals  32GB DDR5 RAM Memory Provides Enhanced multitasking and Improved performance  1TB SSD gives significantly faster speed and improved overall system responsiveness |

Правильный ответ: 14" / 14 inch / 14

Компетенции (индикаторы): ПК-2

10. *Назовите данную группу предметов одним словосочетанием.*

Python

C

C++

ADA

Turbo Pascal

Java Script

COBOL

Fortran

Правильный ответ: programming languages/ programming language

Компетенции (индикаторы): ПК-2

11. *Назовите данную группу предметов одним словосочетанием.*

Microsoft Windows

Apple macOS

Linux

Unix

Chrome OS

Правильный ответ: operating system / operating systems

Компетенции (индикаторы): ПК-2

#### Задания открытого типа с развернутым ответом

1. *Переведите текст по специальности на русский язык.*

The Information Technology industry in the USA is one of the largest and most dynamic sectors in the economy, characterized by significant contributions to economic growth. The US market was influenced by digital transformation, cloud computing, cybersecurity, artificial intelligence. The IT industry is a significant employer, with millions of jobs ranging from software development and system administration to project management and technical support. There is a high demand for skilled professionals, particularly in areas like data science, machine learning, cybersecurity, and cloud technology.

Время выполнения – 30 мин.

Ожидаемый результат: Индустрия информационных технологий в США является одним из крупнейших и наиболее динамично развивающихся секторов экономики, характеризующимся значительным вкладом в экономический рост. На рынок США повлияли цифровая трансформация, облачные вычисления, кибербезопасность, искусственный интеллект. ИТ-индустрия является крупным работодателем, предлагающим миллионы рабочих мест начиная от разработки программного обеспечения и системного администрирования до управления проектами и технической поддержки. Существует высокий спрос на квалифицированных специалистов, особенно в таких областях, как обработка данных, машинное обучение, кибербезопасность и облачные технологии.

Критерии оценивания: Более 50% перевода отвечает содержанию оригинала при наличии незначительных стилистических неточностей. Формулировки и порядок слов в тексте перевода могут отличаться от ожидаемого результата, но не должны искажать смысл. До 30% предложений могут быть переведены с лексическими и грамматическими ошибками или неточностями не влияющими на содержание.

Компетенции (индикаторы): УК-4

2. *Переведите текст по специальности на русский язык.*

The UK is home to a dynamic tech startup ecosystem, particularly in cities like London, Manchester, and Edinburgh. This environment fosters innovation and entrepreneurship, with significant investment flowing into tech startups. The UK government has recognized the importance of the IT industry and has implemented various strategies and initiatives to support its growth. This includes investments in technology education, funding for research and innovation, and initiatives to improve digital infrastructure.

Время выполнения – 30 мин.

Ожидаемый результат: Великобритания является родиной динамично развивающейся экосистемы технологических стартапов, особенно в таких городах, как Лондон, Манчестер и Эдинбург. Данная среда способствует инновациям и предпринимательству, а в технологические стартапы поступают значительные инвестиции. Правительство Великобритании осознало важность ИТ-индустрии и реализовало различные стратегии и инициативы для поддержки ее роста. Они включают инвестиции в технологическое образование, финансирование исследований и инноваций, а также инициативы по улучшению цифровой инфраструктуры.

Критерии оценивания: Более 50% перевода отвечает содержанию оригинала при наличии незначительных стилистических неточностей. Формулировки и порядок слов в тексте перевода могут отличаться от ожидаемого результата, но не должны искажать смысл. До 30% предложений могут быть переведены с лексическими и грамматическими ошибками или неточностями не влияющими на содержание.

Компетенции (индикаторы): УК-4

3. *Переведите текст по специальности на русский язык.*

The Fourth Industrial Revolution is a series of technological innovations that affect production processes and have implications for the world economy. It is a process that began in the 2000s resulting from the interaction of digital, physical, and biological technologies. The features of this revolution are: advanced technologies, integration and interconnection, data-driven decision making, cognitive technologies. The Fourth Industrial Revolution is transforming economies, industries, and societies at an extraordinary pace.

Время выполнения – 30 мин.

Ожидаемый результат: Четвёртая промышленная революция – это ряд технологических инноваций, которые влияют на производственные процессы и имеют последствия для мировой экономики. Это процесс, начавшийся в 2000-х годах в результате взаимодействия цифровых, физических и биологических технологий. Особенности этой революции: передовые технологии, интеграция и взаимосвязь, принятие решений на основе данных, когнитивные технологии. Четвёртая промышленная революция преобразует экономику, отрасли и общество с невероятной скоростью.

Критерии оценивания: Более 50% перевода отвечает содержанию оригинала при наличии незначительных стилистических неточностей. Формулировки и порядок слов в тексте перевода могут отличаться от ожидаемого результата, но не должны искажать смысл. До 30% предложений могут быть переведены с лексическими и грамматическими ошибками или неточностями не влияющими на содержание.

Компетенции (индикаторы): УК-4

4. *Проанализируйте информацию и заполните таблицу соответствующими данными.*

Text is one of the most common 'representation methods' used to communicate information.

Examples of text-based information include: user manual for a new piece of software, company report about annual profit, internal memo about a meeting, email to arrange a party, letter to a customer confirming a delivery date, invoice to a customer.

Text can be used in a variety of contexts e.g. books, posters, billboards, web sites. Text based information is accessible to the majority of people as most people are familiar and comfortable with reading text. It is versatile and is easy to amend and update. A large amount of information and detail can be conveyed with text, but it is not good to convey large amounts of data, numbers or trends and it can be difficult to read and process at speed e.g. when driving. Moreover, if you are from another country and don't understand the language then you won't be able to read the text.

Text must be written at the right level for the audience. A university level academic paper would be very difficult for a school child to read. Acronyms or technical language can also make text difficult to understand.

Text can be downloaded faster from the Internet than image, videos or sound files. And, if printed out, no special equipment is needed to access the textual information.

Table 1. Advantages and disadvantages of using text as an information representation method

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| 1.  2.  3. | 1.  2.  3. |

Время выполнения – 30 мин.

Ожидаемый результат:

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| 1. Text can be used in a variety of contexts e.g. books, posters, billboards, web sites.  2. Text based information is accessible to the majority of people as most people are familiar and comfortable with reading text.  3. It is versatile and is easy to amend and update.  4. A large amount of information and detail can be conveyed with text.  5. Text can be downloaded faster from the Internet than image, videos or sound files.  6. If printed out, no special equipment is needed to access the textual information. | 1. Text is not good to convey large amounts of data, numbers or trends.  2. It can be difficult to read and process at speed e.g. when driving.  3. If you are from another country and don't understand the language then you won't be able to read the text.  4. Text must be written at the right level for the audience.  5. Acronyms or technical language can also make text difficult to understand. |

Критерии оценивания: Более 50% содержания таблицы отвечает содержанию оригинала. Формулировки в таблице могут отличаться от ожидаемого результата, но не должны искажать смысл. До 30% формулировок преимуществ и недостатков могут иметь лексические и грамматические ошибки или неточности, не влияющие на содержание.

Компетенции (индикаторы): ПК-1

5. *Проанализируйте информацию и заполните таблицу соответствующими данными.*

The term 'video' means that the information is being shown as a moving image, the video would most likely include sound and perhaps some animation. If you are viewing online, then you need the right 'media player' to view the video e.g. QuickTime, Window Media Player, Real Player or your browser has to have the right 'add-on' such as Flash. If you are offline, then a DVD player, smart phone or tablet are popular methods of viewing videos. Video footage can contain sound, images and text which are combined to pass on the information in an informative and entertaining way.

Videos can be used for training – people can watch a skill and learn. They have long been used by companies to train their staff, perhaps introducing them to company policies or to teach them how to perform a new skill. A lot of information can be conveyed in a very short time, so videos can become out of date and require updating.

Videos are easy to use. They can be stopped, started, replayed over and over. But you need special equipment to watch it. If viewing online, you also need a fast connection and plenty of bandwidth. Sometimes you need to set up an account or go through pages of adverts in order to view videos.

Table 1. Advantages and disadvantages of using video as an information representation method

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| 1.  2.  3. | 1.  2.  3. |

Время выполнения – 30 мин.

Ожидаемый результат:

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| 1. Video footage can contain sound, images and text which are combined to pass on the information in an informative and often entertaining way.  2. Videos can be used for training.  3. A lot of information can be conveyed in a very short time.  4. Videos are easy to use. They can be stopped, started, replayed over and over. | 1. Videos can become out of date and require updating.  2. You need special equipment to watch videos.  3. If viewing online, you also need a fast connection and plenty of bandwidth.  4. Sometimes you need to set up an account or go through pages of adverts in order to view videos. |

Критерии оценивания: Более 50% содержания таблицы отвечает содержанию оригинала. Формулировки в таблице могут отличаться от ожидаемого результата, но не должны искажать смысл. До 30% формулировок преимуществ и недостатков могут иметь лексические и грамматические ошибки или неточности, не влияющие на содержание.

Компетенции (индикаторы): ПК-1

6. *Проанализируйте информацию и заполните таблицу соответствующими данными.*

Python is one of the most favored and widely used programming languages today. It tops the list of popular programming languages, according to the TIOBE Index for May 2023.

Python is a simple language to read and learn. It doesn't have complex syntax like other high-level languages such as C or C++. Owing to its simplicity, Python makes application maintenance easier. Thus, it reduces the costs involved, which is a massive advantage. Python has a vast library with memory management capabilities, making it stand out from the other programming languages. If you face any difficulty during Python development, community members are always up to help you and solve your queries. Being a portable language, developers do not need to tweak Python code to make it run on platforms other than the one it is written on. The language follows the “Write Once, Run Anywhere (WORA)” feature.

Along with several pros, the language has some limitations in performance and security. Python is an interpreted language that works with an interpreter, not a compiler. As a result, the interpreter executes code relatively slower than a compiler. Hence, the language has a slower execution speed than compiled languages like Java and C++. Python's data structures demand more memory space. It is not suitable to use for development under limited memory restrictions. And it is not considered ideal for mobile app and game development due to more memory consumption and slow processing speed. One of the significant issues of the language is its design restrictions. The reason behind this constraint is that Python is dynamically typed.

Table 1. Advantages and disadvantages of using Python as a programming language

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| 1.  2.  3. | 1.  2.  3. |

Время выполнения – 30 мин.

Ожидаемый результат:

|  |  |
| --- | --- |
| Advantages | Disadvantages |
| 1. Python doesn't have complex syntax. 2. Python makes application maintenance easier. It reduces the costs involved.  3. Python has a vast library with memory management capabilities.  4. If you face any difficulty during Python development, community members are always up to help you and solve your queries.  5. Being a portable language, developers do not need to tweak Python code to make it run on platforms other than the one it is written on. | 1. Python has a slower execution speed than compiled languages like Java and C++.  2. Python's data structures demand more memory space. It is not suitable to use for development under limited memory restrictions.  3. It is not considered ideal for mobile app and game development due to more memory consumption and slow processing speed.  4. One of the significant issues of the language is its design restrictions. The reason behind this constraint is that Python is dynamically typed. |

Критерии оценивания: Более 50% содержания таблицы отвечает содержанию оригинала. Формулировки в таблице могут отличаться от ожидаемого результата, но не должны искажать смысл. До 30% формулировок могут иметь лексические и грамматические ошибки или неточности, не влияющие на содержание.

Компетенции (индикаторы): ПК-1

7. *Проанализируйте информацию и заполните таблицу соответствующими данными.*

|  |  |
| --- | --- |
|  | Lenovo LOQ Gaming Laptop, AMD Ryzen 7 7435HS, 32 GB DDR5 RAM, 2 TB SSD, 15.6" Full HD (1920x1080), Nvidia G-Force RTX 4070, Windows 11 Home |
| Instant Gratification Lenovo LOQ 15.6" LCD FHD Gaming Laptop AMD Ryzen 7 7435HS NVIDIA G-force RTX 4070 8GB Luna Grey Are you ready to take the plunge into the gaming PC realm? Meet the Lenovo LOQ, your gateway to an extraordinary gaming experience.  Processor & Operating System AMD Ryzen 7 7435HS (8 cores / 16T, 3.1 / 4.5GHz, 4MB L2 / 16MB L3) & W11 Home  Display 15.6" Full HD (1920x1080) IPS 300nits Anti-glare, 100% sRGB, 144Hz, G-SYNC  NVIDIA G-Force RTX 4070 NVIDIA G-Force RTX 4070 8GB GDDR6, Boost Clock 2175MHz, TGP 115W  Tech Specs 3x USB-A (USB 5Gbps / USB 3.2 Gen 1) 1x USB-C (USB 10Gbps / USB 3.2 Gen 2), with Lenovo PD 140W and DisplayPort 1.4 1x HDMI 2.1, up to 8K/60Hz 1x Headphone / microphone combo jack (3.5mm) 1x Ethernet (RJ-45) 1x Power connector | |

Table 1. Product information

|  |  |
| --- | --- |
| Processor brand |  |
| Number of cores |  |
| RAM |  |
| Hard disk size |  |
| Screen size |  |
| Monitor resolution |  |
| Operating system |  |

Время выполнения – 30 мин.

Ожидаемый результат:

|  |  |
| --- | --- |
| Processor brand | AMD |
| Number of cores | 8 cores |
| RAM | 32 GB DDR5 |
| Hard disk | ‎2 TB SSD |
| Screen size | 15.6" / 15.6-inch |
| Monitor resolution | 1920x1080 / Full HD |
| Operating system | Windows 11 Home |

Критерии оценивания: Более 50% содержания таблицы отвечает содержанию оригинала. Формулировки в таблице могут отличаться от ожидаемого результата, но не должны искажать смысл. До 30% формулировок могут иметь лексические и грамматические ошибки или неточности, не влияющие на содержание.

Компетенции (индикаторы): ПК-2

8. *Проанализируйте информацию и заполните таблицу соответствующими данными.*

|  |  |
| --- | --- |
|  | Lenovo 2023 Latest 14" Full HD IdeaPad 3 Laptop, AMD Ryzen 7 5700U (8-Core, Up to 4.3 GHz), 16GB DDR4 RAM, 2TB SSD, AMD Radeon Graphics, Business, Wi-Fi 6, Fingerprint, Backlit Keyboard, Windows 11 Home |
| Processor Equipped with AMD Ryzen 7 5700U Octo-Core. The high-performance configuration allows you enjoy impressive creating, which is an ideal home office laptop to get things done fast with high performance, instant responsiveness and best-in-class connectivity.  Display With 1920 x 1080 FHD Display, 14-inch screen, Integrated AMD Radeon Graphics for accelerated visual performance and shared video memory delivers solid image quality for Internet use, movies, basic photo editing, and casual gaming.  Storage Equipped with 16 GB DDR4 RAM, run multiple applications and browser tabs simultaneously smoothly. 2TB SSD save files quickly and store more data.  Windows 11 Home Experience the most secure Windows ever built with fast boot times, increased responsiveness, and added protection against phishing and malware. | |

Table 1. Product information

|  |  |
| --- | --- |
| Processor brand |  |
| Number of cores |  |
| RAM |  |
| Hard disk size |  |
| Screen size |  |
| Monitor resolution |  |
| Operating system |  |

Время выполнения – 30 мин.

Ожидаемый результат:

|  |  |
| --- | --- |
| Processor brand | AMD |
| Number of cores | 8 cores |
| RAM | 16GB DDR4 RAM |
| Hard disk | ‎2 TB SSD |
| Screen size | 14" / 14-inch |
| Monitor resolution | 1920x1080 / Full HD |
| Operating system | Windows 11 Home |

Критерии оценивания: Более 50% содержания таблицы отвечает содержанию оригинала. Формулировки в таблице могут отличаться от ожидаемого результата, но не должны искажать смысл. До 30% формулировок могут иметь лексические и грамматические ошибки или неточности, не влияющие на содержание.

Компетенции (индикаторы): ПК-2

9. *Проанализируйте информацию и заполните таблицу соответствующими данными.*

|  |  |
| --- | --- |
|  | ASUS TUF Gaming A16 Laptop 16" WUXGA 165Hz 7ms 100% sRGB AMD 8-core Ryzen 7 7735HS 32GB DDR5 RAM 2TB SSD AMD Radeon RX 7700S 8GB (>RTX4060) Backlit USB-C USB4 Fast Charging Win11 Pro w/ICP Accessory |
| About this item:  32GB RAM | 2TB SSD  Equipped With The Most Powerful and Fast AMD Octa-core Ryzen 7 7735HS Processor  16" FHD (1920x1200) IPS Anti-glare 165Hz (100% sRGB, 7ms, FreeSync Premium, MUX Switch), AMD Radeon RX 7700S 8GB Graphic  2 x USB-A 3.2, 1 x USB-C 3.2, 1 x USB-C USB4, 1 x HDMI 2.1 FRL, 1 x RJ45 Ethernet Port  Windows 11 Pro, Backlit Keyboard, Dolby Atmos, AI Noise Cancelation, Hi-Res, Webcam, Fast Charging, Auth USB-C Hub | |

Table 1. Product information

|  |  |
| --- | --- |
| Processor brand |  |
| Number of cores |  |
| RAM |  |
| Hard disk size |  |
| Screen size |  |
| Monitor resolution |  |
| Operating system |  |

Время выполнения – 30 мин.

Ожидаемый результат:

|  |  |
| --- | --- |
| Processor brand | AMD |
| Number of cores | 8 cores |
| RAM | 32GB DDR5 RAM |
| Hard disk | ‎2 TB SSD |
| Screen size | 16" / 16-inch |
| Monitor resolution | 1920x1200 / Full HD |
| Operating system | Windows 11 Pro / Windows 11 Professional |

Критерии оценивания: Более 50% содержания таблицы отвечает содержанию оригинала. Формулировки в таблице могут отличаться от ожидаемого результата, но не должны искажать смысл. До 30% формулировок могут иметь лексические и грамматические ошибки или неточности, не влияющие на содержание.

Компетенции (индикаторы): ПК-2