**III Make opposites of the following words by adding the appropriate prefix (5)**1 correct ……………………………………………  
2 encrypt ……………………………………………  
3 adequate ……………………………………………  
4 economical ……………………  
5 sufficient ………………………………

**VI Rewrite the sentences by putting verbs in the passive where appropriate (10).**Neural network look at the rules of using data. As a result, the software continually analyses value and compares it to the other factors, and it compares these factors repeatedly until it finds patterns. People know these patterns as rules. The software than looks for other patterns based on these rules or sends out an alarm when it hits a bigger value. Clustering divides data into groups based on similar features or limited data ranges.

**VII Rewrite these sentences in the passive (3).**1 You have to explain the procedure to me.  
…………………………………………………………………………………….   
2 I have already given a set of diagrams.  
………………………………………………………………………………  
3 Someone will demonstrate the game to the children.  
…………………………………………..……………………………………….

**XI Complete the conditional sentences (4).**1. If you spilled coffee on your keyboard you ……………….. (damage) it.  
2. You …………………………. (find) Start button if you bring your cursor down to the very bottom.  
3. If you ………………… (not use) a better search engine you won’t find more relevant results.  
4. If there …………………………….. (be) no other folders there you wouldn’t have a little box here.

**XII Translate the sentences into Englich (5).**1. Danas racunari u sistemima zastite rezultiraju sigurnijim okruzenjem, kod racunara u autima poboljsavaju energetsku efikasnost.

Today, computers in security systems result in safer environments, computers in cars improve energy efficiency.  
2. Potreba da se razvije sistem obnovljive energije se smatra futuristickim tehnoloskim izazovima baziranim na konceptima koji postoje odavno.

The need to develop renewable energy system considers as futuristic technological challenge based on concepts that have long been in existence  
3. Djelovanje vjetra na solarni stub moze takodje da proizvede silu uvrtanja.  
4. Dramaticno raspadanje motora aviona tokom leta je izazvala lose napravljena cijev za gorivo koja nije odgovarala standardima.

The dramatic disintegration of jet engine during a flight was triggered by a poorly oil pipe which did not be as in standard

**VII Complete the conditional sentences (4)**1. If you added more memory you ……………………….. (speed up) the computer.  
2. If he ……………………. (forget) to save date he will lose them all.  
3. If you ……………………….. (install) a modem you would be able to connect to a telephone line.  
4. If she ………………….(not send) us data on time we will lose to our competitors.

**II Complete the passage using either active or passive forms of the verb (10).**Whenever a disaster …………… (happen) somewhere in the world, reporters and photographers ……………….(send) there to interview people and take photos. The news reports ……………….(can/send) by e-mail or over the phone and rolls of film ……………….(rush back) to the office to be developed. The computer …………………….. (print) out the page of news onto a piece of clean film which ……………………….. (lay) on a light-sensitive plate and ……………….. (expose) to a brief flash of light. A plate …………………… (make) for each page of the newspaper, ……………………….(wrap) around a roller on the printing press and ……………………. (coat) with ink.

**III Rewrite these sentences in the passive (3).**1. You should switch off your mobile phone during the flight.

………………………………………………………….  
2. The board will discuss the proposal.  
………………………………………………….  
3. They have built a new extension.  
…………………………………….

**1 Complete the conditional sentences in the situations using the words in brackets.**

1 A friend needs to call his partners to conference. (*offer to help*)

If you need ……… I ………… your partners to conference.

(help / call)

2 A colleague can not make up his mind about a job offer. (*advice*)

If I………. you, I ………….. the offer.

(be you / take the offer)

3 I missed the plane and was late for the meeting. (*regret*)

If I ………………. the plane, I ………………….late.

(not miss / not be late)

**2 Infinitives or gerund**

1. Our CEO suggested ………… (open) a new office.
2. The decided …………… (make) the business known in other markets.
3. The company began ……………… (build) new facilities.
4. They agreed ……………….. (start) negotiations on Monday.
5. It is not worth ………………. (buy) expensive equipment.
6. He let me …………… (check) his computer.
7. We look forward …………………. (work) together.

**3 Make opposites of the following words using one of the prefix.**

1 correct -

2 detected -

3 balance -

4 proportionate -

5 compress -

6 effective -

7 consistent -

**4 Complete the text below about filming of a television ad using one of the article.**

Ronaldinho smashed …. window in ……centuries-old cathedral of Santiago de Compostela while filming ….. advert for television today. Luckily for ….. Barcelona star, ….. window was only ….small, modern addition to Spain's famous cathedral in Galicia. The Brazilian blundered after being asked to try ….. scissor-kick beneath. 'I asked Ronaldinho to hit ….. ball as hard as he could and he had ….. bad luck to hit ….. window'.

**5 Re-write the first sentence in reported speech with the words given.**

1 ‘We haven’t watched that show before.’

2 ‘I don’t want to diversify in the immediate future’.

3 ‘We are not going to move too fast.’

4 ‘We will not compromise with them and change our plans.’

5 ‘If you don’t give us a discount we won’t buy your equipment.’

**6 Re-write these sentences into the passive.**

1 We have made the decision.

2 He is preparing the documents now.

3 Some experts placed too much hope on middle classes.

4 You must return all tenders and supporting documents by 31 March.

**7 Re-write the following text using the passive whenever possible.**

People use SMTP to transfer messages between one mail server and another. Email programs on PCs also use it to send mail to the server. SMTP is very straightforward, providing only facilities to deliver massages to one or more recipients in batch mode. Once programs have delivered a message, they can’t recall it or cancel. They also delete it from the sending server once they have delivered it. SMTP uses ‘push’ operation, meaning that sending server initiates connection rather than the receiver.

**8 Write suitable suffix.**

1 From kitchen magnets to computer disks,................ (magnet) plays a central role in the technology of everyday life.

2 A computer ……………. (technology) installs, troubleshoots and upgrades hardware and software.

3 Most sites for downloading papers are nowadays ………….……. (access).

4 Blu-Ray Disc is a new ………..….. (record) optical disc format developed by nine electronic …………….. (manufacture).

**9 Translate the following sentences into English.**

1 Obrnuti inženjering softvera može da pomogne da se poboljša razumijevanje izvornog koda za razvoj, održavanje i unaprijeđenje softvera, što pomaže kod određivanja i popravljanja grešaka softvera ili ranjivosti.

2 Da bi prilagodio ovakvo ponašanje za svjetlost, Ajnštajnova teorija je predviđala da će se vrijeme i prostor morati istezati ili skupljati dok neko putuje sve većom brzinom.

3 Manja emisija, niže cijene goriva i smanjenja zagađenosti su prednosti koje upotreba atlernativnog goriva može da ponudi da ublaži problem koje izaziva upotreba fosilnog goriva.

**10 What are some alternative ways of producing electricity?**

Grupa A

I Complete the conditional sentences in the situations using the word in brackets(5).  
1 A colleague has a lot of candidates to interview.(Offer to help)  
if you ……………………………………………………………………. (help/interview)  
2 A colleague has a new computer but can’t get It to work.(advice)  
If I .………………………………………………………………..(be you/call help line)  
3 A member of your team was ill while they were at work. (regret)  
If I ……..……………………………………………………..(know / send home)  
4 A colleague has lost her mobile phone in the office. (advice)  
If you …..………………………………………………….(call / find)  
5 I worked too hard and burned out. (regret)  
If I ………………………………………….(less/burned)

## II Complete these definitions with correct participle of the verb given in the brackets(5).

1 *Telnet* is an Internet service……(enable) users to log on to their computers at a distance.  
2 *FTP* is an Internet service……..(use) to download files from server.  
3 *IRC* is an Internet service…….(allow) users to chat in real time.  
4 The *Web* is an Internet service … ….(make) webpages available to millions of users worldwide.  
5 The *Internet* if huge number of computers…… (link) together.

## III Complete the sentences using the correct form of the word in brackets(6).

1 Most library databases are ….. via the Internet. (Access)  
2 Aircraft flight…….…. is used to train pilots. (Simulate)  
3 This book will show you how to …… your small business. (Computer)  
4 From kitchen magnets to computer disks, ………… plays a central role in the technology of everyday life. (Magnet)  
5 I have bought a new, …………… keyboard. (Program)  
6 She is a computer ………..… and specializes in IT strategies. (Consult)

## IV Re-write the first sentence in reported speech with the words given (5)

1 ‘We haven’t watched that show before.’  
They said ………………………………….  
2 ‘I don’t want to diversify in the immediate future.’  
He said …………………………………….

3 ‘We are not going to move too fast.’  
He said ……………………………………..  
4 ‘She may be in the office.’  
He said ……………………………………….  
5 ‘We will not compromise with terrorists.’  
The Minister said ………………………….

## V Use the word given in brackets to form a word that fits into the space(3).

1 None of his ……………….. ever worked. (invent)   
2 The race was very ………….….. but he eventually won. (compete)  
3 ……………….….. of electrical goods has increased this year. (consume)

## VI Fill each gap with a verb from the brackets, using the correct form of the Past Simple or the Past Perfect (7).

Paul Bennett was killed after he…………..(climb) into a giant industrial tumble dryer to free a piece of cloth trapped inside. The machine……………..(start) accidentally and he was spun to death. It………(become) evident that his employer………………..(not give) him proper training and a jury……………(decide) that there……………..(nije priznala,ali tako pise u knjizi)……(be) an ‘unlawful killing’ – it was satisfied beyond reasonable doubt that Mr. Bennett………………(die) as a result of manslaughter.

## VII Write the verbs in brackets in the correct form (4).

1 While he…(write) the email, we…(nije priznala have had)…(have) discussion in another office.  
2 They are coming after they…… (have) dinner.  
3 People started complaining about the product after we……(launch) it.  
4 I will send the invitations as soon as I……(receive) the addresses.

## VIII Explain how each of there actions happen using –ing clause(3).

1 MP3 reduces the information stored …………………………………….  
2 You can ‘rip’ the audio information from a CD………………………………….  
3 You can access many free and legal music files for downloading ……………………………………….

## IX Link each pair of actions using a time clause(3).

1 a) With POP3, email is stored on the server.  
 b) You check your email account.  
……………………………………………………………………………………………….  
2 a) You have clicked on a hyperlink.  
 b) You have to wait for the webpage to be copied to your computer.   
……… ……………………………………………………………………………………………….  
3 a) You listen to the first part of a streamed audio file.  
 b) The next part is downloading.  
……… ……………………………………………………………………………………………………………

## X Translate the following sentences into Serbian (3).

1 In host-based mail system SMTP is the only protocol the server uses where received messages are stored locally and retrieved from the local file system by mail program.  
2 Most advance home networks are likely to have a client/server structure with low-cost terminals, or ‘thin’ clients, connected to a central server which maintains the system’s storage capacity.  
3 The purpose of the system is to help smooth power demand for the benefit of electric utilities.

## XI Translate the following sentences in English (3).

1 Dinamicki kontrolni sistem potraznje se moze ugraditi u elektricne aparate koji rade po principu radnih ciklusa.  
2 Potraznja za elektricnom energijom varira I elektricne central moraju da se izbore sa vrhuncem potraznje.  
3 Modem je uredjaj koji prebacuje digitalne signale u analogne I obratno da bi omogucio racunaru da prenosi I prima podatke.

Grupa B

## I Complete the conditional sentences in the situations using the word in brackets(5).

1 A colleague needs some figures urgently for a sales report. (offer to help)  
If you……………….(tell me/ send immediately)  
2 Your friend failed his driving test because he drove too fast. (criticize)   
If you………………………………………………...(drive/fail)  
3 A member of your team is late for work again. (threat)  
If you……………………………………..………………………….(be late/report)  
4 A colleague wonders whether to put the presentation on a CD or not.(advice)  
If I……………………………………………….(be you/put)  
5 I didn’t set the alarm so I overslept. (regret)  
If I…………………….(set/oversleep)

## II Fill each gap with a verb from the brackets, using the correct form of the Past Simple or the Past Perfect (7).

Neil said that Roy, who used to enjoy riding with him on his bike,………..(follow) him as he set off. He told the child to go back to his mother, and………...(ride) away. Meanwhile, Roy’s mother thought that Roy………....(go) with Neil; Neil believed Roy………….(stay) behind. It…………..(be) only some hours later, when Neil…………(return), that they realized Roy……………..(vanish).

## III Complete the sentences using the correct form of the word in brackets(6).

1 The combination of… and new textile materials has made it possible to create musical jackets that can read our hear rate. (Electron)  
2 An…. optical disc allows data to be deleted and new data to be recorded. (Erase)  
3 A video….. is used to convert analogue video into digital video files. (Digit)  
4 She is a computer….. and specializes in e-commerce. (Consult)  
5 Is this format…..? (Convert)  
6 The two major….. of processor chips are Intel and AMD. (Manufacture)

## IV Complete these definitions with correct participle of the verb given in the brackets(5).

1 A *LAN* is usually a network………….(connect) computers over a small distance.  
2 *CMC* is communication…………….(use) computers.   
3 A *search engine* is a Internet search tool…………..consist of) databases if information that can be searched using keywords  
4 *Subject directories* are hierarchically organized indexes………… (categorize) into subject areas.  
5 A *gateway* is a collection of hardware and software…………...(enable) a network to communicate with a dissimilar network.

## V Re-write the first sentence in reported speech with the words given (5).

1 ‘Charles has just phoned and he wants to see you.’  
She said…………….……  
2 ‘If we don’t do something quickly we’ll lose out to our competitors.‘  
He said…………………….  
3 ‘You can leave your suitcases in the left-luggage lockers over there.’  
She said………………..  
4 ‘Our firm has a few old-fashioned computers and we don’t know what to do with them.’  
He said………………………….

5 ‘My salary will not keep pace with of living.’  
She said……………………………………..

## VI Use the word given in brackets to form a word that fits into the space(3).

1 There was a small…………. in the IT sector this year. (improve)  
2 They closed the building because it was…(nije safer, mozda je the safest)………………. . (safe)  
3 They will make their……….tomorrow. (decide)

## VII Explain how each of there actions happen using –ing clause(3).

1 You can alter the look of your MP3 player…  
2 You can convert a WAV file to MP3 format…………………………….  
3 You can control how the music sounds…..

## VIII Link each pair of actions using a time clause(3).

1 a) The graphics can be displayed gradually.  
 b) The webpage is downloaded.  
……………………………………………………………………………………………………………………  
2 a) You receive an email message.  
 b) You can forward it to another address.  
……………………………………………………………………………………………………………………  
3 a) You can bookmark a webpage to make it easier to find in the future.  
 b) You find a webpage you like.  
………………………………………………………………………………………………………………………

## IX Write the verbs in brackets in the correct form (4).

1 We’ll meet again next week after you…..(change) your position.  
2 While he……………..(wait) to be called they gave the offer to someone else.  
3 As long as your company……………..(offer) good terms, we will do business with you.  
4 I……………..(already/move) to Paris before they offered me the job there.

## X Translate the following sentences into Serbian (3).

1 Special isolation adapters can be fitted to allow existing mains lines to be used instead of twisted-par cabling.  
2 SMTP is very straightforward, providing only facilities to deliver messages to one or more recipients in batch mode.  
3 In order to maintain continuous supply of power we have to make continual checks, and adjust the power load we generate.

.

## XI Translate the following sentences in English (3).

1 Veoma je tesko sacuvati elektricnu energiju u velikim kolicinama pa koristimo inovativnu tehniku da bismo pohranili elektricnu energiju tokom perioda slabe potraznje.  
2 Dinamicki sistem iskoristava cinjenicu da aparati sa radnim ciklusom ne zahtijevaju stalno napajanje.  
3 Ruter je poseban racunar koji usmjerava poruke kada je nekoliko mreza povezano.

**Artificial Intelligence**

The term Artificial Intelligence was first coined by Jonh McCarty in 1957, and it was defined as the science of making intelligent machines. AI researchers hope to develop the machines that will have intellectual abilities like learning, reasoning, perception, and understanding of language. There is a lot of advantages that AI brings in our lives such as doing some tasks with a little chance of error and with great precision. Also, AI fused with robotics bring us intelligent robots that are capable of many things such as space exploration, digging for fuels, doing some painstaking tasks, etc. There is a lot of examples of AI applications on smarthphones, e.g. google personal assistant and so on. AI machines don’t have emotions and they are capable of making decisions based on logically thinking. Also, one of the gretest advantages is that AI machines do not require sleep or rest and they are very fast. AI, like everything else, has its downsides. One of the biggest disadvantages is the cost of maintenance and repair. In some applications, even the short period required to repair the system can produce very high costs. AI machine are still not productive in the creative fields and there is great concern about ethics of AI. Also, there is a fear of robots superseding humans.

**IoT**

Internet of Things (IoT) represents network of electronic devices, home use appliances, vehicles, sensors and other gadgets connected through internet. The phrase “Internet of things” was first used by Kevin Ashton in 1999 and nowadays it is worldwide used. Thanks to IoT, devices that previously only had a few functions are now very advanced and only the requirement for using them is fast and stable internet connection. Number of devices connected in the network is growing rapidly, and it is estimated that, by 2025, the market will have more than 21 billion connected devices. Because of that, smart homes and smart cities wil be more and more popular. One of the main concerns about IoT is its security because IoT devices make their users vulnerable to hacks. To prevent security problems, router makers will need to improve security of routers and thus protect devices connected to it. Also, thanks to Artificial Intelligence, IoT device will be able to learn its user’s habits and increase effectivness. 5G network wil provide better conectivity via Wi-Fi routers and self-driving cars will be everywhere around us.

**Why everything is hackable**

Today, the number of Internet users and connected IoT devices is rapidly growing, but their security on internet is very low. In 2017, a British secondary school pupil named "Stackoverflowin" hacked hundreds of thousands of printers just to show how everything is vulnerable. Also, in 2016, cyber-crooks stole 81m dollars from central bank of Bangladesh. In the same year, software called “Mirai” was used to block traffic on some web sites such as Twitter and Reddit. These examples, and many others, are either show-off vandalism or simply criminal. They show how everything connected to internet is easy to hack, and how we are unsecured. The total cost of all this hacking is very big and it will increase rapidly in future. Some of the reasons for this technological insecurity are the large variety of components built into the devices and the bad software support. In order to overcome these problems, it is necessary to invest more in the development of electronics and internet security.

**Cloud Computing**

Cloud computing is a special way of delivering computer services and resources. Data and programs are not stored locally, instead we need Internet connection to use them. The term is generally used to describe [data centers](https://en.wikipedia.org/wiki/Data_center) available to many users over the [Internet](https://en.wikipedia.org/wiki/Internet).  Large clouds often have functions distributed over multiple locations from central [servers](https://en.wikipedia.org/wiki/Server_(computing)). Clouds may be limited to a single organization (enterprise clouds), or be available to many organizations (public cloud). Cloud computing relies on sharing of resources to achieve economic and time efficiency. One of the main problems is that cloud servers or even some Internet servers could be ofﬂine very often, thus making service unusable. There is also a security issue because the users usually do not know who has access to their data. Some predictions are that clud computing will provide unlimited connectivity and processing power to individuals, but also enable us to leverage power of IoT to the full extent

My brother Michael used to be …A teacher in …A village school near …(nije bilo linije za popuniti) Cambridge. …The job was interesting but tiring and not very well-paid. He spent most of his free time on his hobby – collecting and repairing …- antique clocks. Then he had …AN idea. The (ovde je bila prazna linija, trebalo je ubaciti clan)CBI (Confederation of British Industry) was …- helping people start up by themselves. Why not go on …A training course, apply for …A loan and set up …A small business? So he sent in his registration to …THE school, said good-bye to …THE children, and joined the(ovde je bila prazna lija, trebalo je ubaciti clan) unemployed. He obtained …- information from …- different sources, took …- advice from …AN accountant, left …THE village and(mozda je bila linija za popuniti) learnt all about …THE antique trade. Eighteen months later he has his own shop and was earning about 2.000 pounds …A month. “It was …THE best thing I ever did,” he said.

A teacher

A village

- Cambridge

The job

- antique

An idea

The CBI

A training

A loan

A small

The school

The children

The unemployed

- information

An accountant

The village

The antique

The best

|  |
| --- |
| My brother Michael used to be a teacher in a village school near Cambridge. The job (1. be)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ interesting but tiring and not very well-paid. He (2. spend)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ most of his free time on his hobby – collecting and repairing antique clocks. Then he (3. have)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ an idea. The CBI (Confederation of British Industry) was helping people (4. start up) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by themselves. Why not go on a training course, apply for a loan and set up a small business? So he resigned from the school, (5. say) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ goodbye to the children, and joined the unemployed. He obtained information from different sources, (6. take) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ advice from an accountant, (7. leave) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the village and learnt all about the antique trade. Eighteen months later he had his own shop and (8. earn) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ about 2,000 pounds a month. ‘It was the best thing I ever (9. do)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_’, he (10. say) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Ћаскање је завршено |

Унесите поруку...

My brother Michael used to be … teacher in … village school near …(nije bilo linije za popuniti) Cambridge. … job was interesting but tiring and not very well-paid. He spent most of his free time on his hobby – collecting and repairing …- antique clocks. Then he had … idea. … CBI (Confederation of British Industry) was …- helping people start up by themselves. Why not go on … training course, apply for … loan and set up … small business? So he sent in his registration to … school, said good-bye to … children, and joined …. unemployed. He obtained …- information from …- different sources, took …- advice from … accountant, left … village and ….learnt all about … antique trade. Eighteen months later he has his own shop and was earning about 2.000 pounds … month. “It was … best thing I ever did,” he said.

**Revision II**

**I Rewrite these sentences to emphasise the words in italics.**

1 *Laser light* can switch faster than electric current.

It is Laser light that can switch faster than electric current.

2 Marconi sent *a radio signal* accross Atlantic ocean .

What Marconi sent across Atlantic ocean was a radio signal.

3 Apple launched OS X operating system *in 2001*.

It was in 2001 that Apple launched OS X operating system.

**II Replace the words in italics in each sentence with the appropriate form of an *–ise* verb.**

1 If you hire a company they can make you a system *which has been converted for computers*.

If you hire a company they can make you a system which has been computerised.

2 Nowadays you need to *make solutions which are* *tailored to the customers*.

Nowadays you need to make solutions which are customised.

3 Your data should be *put into categories*.

Your data should be categorised.

**III Report the questions.**

1 “Where are you going?”

She asked where I was going.

2 “Have you ever visited any foreign country?”

He asked if I had ever visited any foreign country.

3 “Did you get the email I sent you last night?

She asked if I had got the email he had sent me the night before.

4 “Does he know why we are late?”

She asked if he knew why we were late.

**IV Link these statements using a relative clause with a participle.**

1 a) Subject dictionaries are hierarchically organised indexes.

b) They are categorised into subject areas.

Subject dictionaries are hierarchically organized indexes categorised into subject areas.

2 a) Telnet is an Internet service.

b) It enables users to log on to their computers at a distance.

Telnet is an Internet service enabling users to log on to their computers at a distance.

**V Join the sentences into one using a relative pronoun.**

1 Digital Terrestrial TV is a technology. It allows you to receive more channels and a better picture.

Digital Terrestrial TV is a technology which allows you to receive more channels and a better picture.

2 A computer geek is a person. He is an enthusiastic user of computers.

A computer geek is a person who is an enthusiastic user of computers.

3 An address bar is the area in your browser display. The web address is displayed there.

An address bar is the area in your browser display where is displayed the web address.

**VI Complete the sentences with either comparative or superlative form of the adjectives and adverbs in the brackets (4).**

1 John drives motorbike ……more carefully…. (careful) than me.

2 Although many computers have hard disk drives with a capacity of 80 to 160 GB, many home users want ……more spacious….. (spacious) drives.

3 You can do this now ……more easily.…. (easy) than before.

4 I want ……the most reliable…... (reliable) system that exists.

**VII Translate the following sentences into English.**

1. Da biste pokrenuli veoma zahtjevne aplikacije trebaće vam brz procesor, mnogo RAM memorije i prostran disk.

2. Jedna od osnovnih motivacija za upotrebu OOP-a jeste rukovanje multimedijalnim aplikacijama u kojima su različite vrste podataka kao što je zvuk i video spakovane zajedno u izvršne module.

3. Roboti su sastavljeni od jakog metala, neprestano su svjesni i mogu lako da podnesu krajnosti okoline.

1. To run very demanding applications, you will need fast processor, a lot of RAM and spacious disc.

2. One of the main motivations for using OOP is to handle multimedia applications in which different data types can be packaged together.

3. Robots are made of strong metal, are constantly aware and can easily to handle environmental extremes.

**VIII Explain the difference between ESP Now and ESP Mesh protocols.**

ESP-NOW are usually used for low power devices. It can save the time to build connection with other device after it's waken up from sleep mode, so we can save more power. ESP now protocols have more reliability, but on the other hand Mesh protocol offers features like - building a network, automatic root node selection, etc.

Grupa A

I Complete the conditional sentences in the situations using the word in brackets(5).  
1 A colleague has a lot of candidates to interview.(Offer to help)  
if you \_­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (help/interview)  
2 A colleague has a new computer but can’t get It to work.(advice)  
If I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (be you/call help line)  
3 A member of your team was ill while they were at work. (regret)  
If I \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. (know / send home)  
4 A colleague has lost her mobile phone in the office. (advice)  
If you \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (call / find)  
5 I worked too hard and burned out. (regret)  
If I \_.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (less/burned)

## II Complete these definitions with correct participle of the verb given in the brackets(5).

1 *Telnet* is an Internet service…………………….(enable) users to log on to their computers at a distance.  
2 *FTP* is an Internet service… ……………………...(use) to download files from server.  
3 *IRC* is an Internet service…………………………..(allow) users to chat in real time.  
4 The *Web* is an Internet service………………..….(make) webpages available to millions of users worldwide.  
5 The *Internet* if huge number of computers………………………… (link) together.

## III Complete the sentences using the correct form of the word in brackets(6).

1 Most library databases are …... via the Internet. (Access)  
2 Aircraft flight … …. is used to train pilots. (Simulate)  
3 This book will show you how to … … your small business. (Computer)  
4 From kitchen magnets to computer disks, … … plays a central role in the technology of everyday life. (Magnet)  
5 I have bought a new, … … keyboard. (Program)  
6 She is a computer …… and specializes in IT strategies. (Consult)

## IV Re-write the first sentence in reported speech with the words given (5)

1 ‘We haven’t watched that show before.’  
They said ….  
2 ‘I don’t want to diversify in the immediate future.’  
He said …..  
3 ‘We are not going to move too fast.’  
He said ….   
4 ‘She may be in the office.’  
He said ….   
5 ‘We will not compromise with terrorists.’  
The Minister said ….

## V Use the word given in brackets to form a word that fits into the space(3).

1 None of his ……………….. ever worked. (invent)   
2 The race was very ……….….. but he eventually won. (compete)  
3 ……………..….. of electrical goods has increased this year. (consume)

## VI Fill each gap with a verb from the brackets, using the correct form of the Past Simple or the Past Perfect (7).

Paul Bennett was killed after he……………(climb) into a giant industrial tumble dryer to free a piece of cloth trapped inside. The machine……………..…(start) accidentally and he was spun to death. It ………………. (become) evident that his employer……………………(not give) him proper training and a jury………………(decide) that there………………….…(be) an ‘unlawful killing’ – it was satisfied beyond reasonable doubt that Mr. Bennett……………………..…(die) as a result of manslaughter.

## VII Write the verbs in brackets in the correct form (4).

1 While he…………… (write) the email, we………….....(have) discussion in another office.  
2 They are coming after they…………….… (have) dinner.  
3 People started complaining about the product after we………………(launch) it.  
4 I will send the invitations as soon as I…………………(receive) the addresses.

## VIII Explain how each of there actions happen using –ing clause(3).

1 MP3 reduces the information stored … .   
2 You can ‘rip’ the audio information from a CD …. .  
3 You can access many free and legal music files for downloading …. .

## IX Link each pair of actions using a time clause(3).

1 a) With POP3, email is stored on the server.  
 b) You check your email account.  
  
2 a) You have clicked on a hyperlink.  
 b) You have to wait for the webpage to be copied to your computer.   
  
3 a) You listen to the first part of a streamed audio file.  
 b) The next part is downloading.

## X Translate the following sentences into Serbian (3).

1 In host-based mail system SMTP is the only protocol the server uses where received messages are stored locally and retrieved from the local file system by mail program.

2 Most advance home networks are likely to have a client/server structure with low-cost terminals, or ‘thin’ clients, connected to a central server which maintains the system’s storage capacity.

3 The purpose of the system is to help smooth power demand for the benefit of electric utilities.

## XI Translate the following sentences in English (3).

1 Dinamicki kontrolni sistem potraznje se moze ugraditi u elektricne aparate koji rade po principu radnih ciklusa.  
  
2 Potraznja za elektricnom energijom varira I elektricne central moraju da se izbore sa vrhuncem potraznje.  
  
3 Modem je uredjaj koji prebacuje digitalne signale u analogne I obratno da bi omogucio racunaru da prenosi I prima podatke..

Grupa B

## I Complete the conditional sentences in the situations using the word in brackets(5).

1 A colleague needs some figures urgently for a sales report. (offer to help)  
If you…………………………..…….(tell me/ send immediately)  
2 Your friend failed his driving test because he drove too fast. (criticize)   
If you………………………...(drive/fail)  
3 A member of your team is late for work again. (threat)  
If you…………………………...(be late/report)  
4 A colleague wonders whether to put the presentation on a CD or not.(advice)  
If I………………..….(be you/put)  
5 I didn’t set the alarm so I overslept. (regret)  
If I…………………………… (set/oversleep)

## II Fill each gap with a verb from the brackets, using the correct form of the Past Simple or the Past Perfect (7).

Neil said that Roy, who used to enjoy riding with him on his bike,………………....(follow) him as he set off. He told the child to go back to his mother, and…………………….(ride) away. Meanwhile, Roy’s mother thought that Roy…………………..(go) with Neil; Neil believed Roy……………....(stay) behind. It…………………..(be) only some hours later, when Neil………………..(return), that they realized Roy………………....(vanish).

## III Complete the sentences using the correct form of the word in brackets(6).

1 The combination of……………and new textile materials has made it possible to create musical jackets that can read our hear rate. (Electron)  
2 An…………….. optical disc allows data to be deleted and new data to be recorded. (Erase)  
3 A video…. is used to convert analogue video into digital video files. (Digit)  
4 She is a computer…………………. and specializes in e-commerce. (Consult)  
5 Is this format…………………....? (Convert)  
6 The two major………………….... of processor chips are Intel and AMD. (Manufacture)

## IV Complete these definitions with correct participle of the verb given in the brackets(5).

1 A *LAN* is usually a network…………….(connect) computers over a small distance.  
2 *CMC* is communication……………….…….(use) computers.   
3 A *search engine* is a Internet search tool…………………...(consist of) databases if information that can be searched using keywords  
4 *Subject directories* are hierarchically organized indexes…………………….. (categorize) into subject areas.  
5 A *gateway* is a collection of hardware and software……………………….(enable) a network to communicate with a dissimilar network.

## V Re-write the first sentence in reported speech with the words given (5).

1 ‘Charles has just phoned and he wants to see you.’  
She said…………………………………….……  
2 ‘If we don’t do something quickly we’ll lose out to our competitors.‘  
He said……………………………………………….  
3 ‘You can leave your suitcases in the left-luggage lockers over there.’  
She said………………………………………….…..  
4 ‘Our firm has a few old-fashioned computers and we don’t know what to do with them.’  
He said…………………………………………………..

5 ‘My salary will not keep pace with of living.’  
She said………………………………………………

## VI Use the word given in brackets to form a word that fits into the space(3).

1 There was a small…………………….……improvement…. in the IT sector this year. (improve)  
2 They closed the building because it was…(nije safer, mozda je the safest)………unsafe ………. . (safe)  
3 They will make their…………….….tomorrow. (decide)

## VII Explain how each of there actions happen using –ing clause(3).

1 You can alter the look of your MP3 player……………………….  
2 You can convert a WAV file to MP3 format…………………..  
3 You can control how the music sounds….........................

## VIII Link each pair of actions using a time clause(3).

1 a) The graphics can be displayed gradually.  
 b) The webpage is downloaded.

2 a) You receive an email message.  
 b) You can forward it to another address.

3 a) You can bookmark a webpage to make it easier to find in the future.  
 b) You find a webpage you like.

## IX Write the verbs in brackets in the correct form (4).

1 We’ll meet again next week after you…….…..(change) your position.  
2 While he…….…………..(wait) to be called they gave the offer to someone else.  
3 As long as your company…….…………..(offer) good terms, we will do business with you.  
4 I…had already moved …………..(already/move) to Paris before they offered me the job there.

## X Translate the following sentences into Serbian (3).

1 Special isolation adapters can be fitted to allow existing mains lines to be used instead of twisted-par cabling.  
2 SMTP is very straightforward, providing only facilities to deliver messages to one or more recipients in batch mode.  
3 In order to maintain continuous supply of power we have to make continual checks, and adjust the power load we generate.

## XI Translate the following sentences in English (3).

1 Veoma je tesko sacuvati elektricnu energiju u velikim kolicinama pa koristimo inovativnu tehniku da bismo pohranili elektricnu energiju tokom perioda slabe potraznje.  
  
2 Dinamicki sistem iskoristava cinjenicu da aparati sa radnim ciklusom ne zahtijevaju stalno napajanje.  
  
3 Ruter je poseban racunar koji usmjerava poruke kada je nekoliko mreza povezano.

Top of Form