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PART 1 LISTENING

TASK 1 – LISTENING (10 x 1 = 10 points)

You will listen to an update on the company, which sells medical equipment. Mark the sentences below true (T) or false (F). Write your answers in the table below.

1. The speaker emphasizes the fact that the company has been successful on the market for almost 8 decades.
2. Selling medical equipment does not limit itself to sale, it encompasses a wide range of services that the customers are provided with.
3. Due to the expansion of the company on the market, four countries have been selected for sending the staff on secondment.
4. About 15% of Norway's GDP is currently spent on healthcare, which constitutes the third worldwide after the USA and Switzerland.
5. Norway has its own vast domestic production of medical equipment.
6. It is not necessary to speak Norwegian while doing business in Norway.
7. In Saudi Arabia, an enormous amount of money is spent on medical equipment.
8. Due to legal and cultural requirements in Saudi Arabia, both male and female employees with a strong command of English are needed.
9. In Argentina, healthcare costs account for 7% of the country's GDP, which is one of the lowest in South America.
10. Candidates interested in the discussed secondment assignments are asked to contact their managers and set up an appointment with HR in the next 3 weeks.

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
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TASK 2 – LISTENING (10 x 1 = 10 points)

You will hear a conversation between Charlie, Marianne and Marco, who will consider various issues related to the development of a banking app. Read sentences 1-10, listen to the recording and complete the sentences below with the words or numbers you hear in the recording. Write NO MORE THAN TWO WORDS for each answer. Transfer your answers to the column on the right. You will hear the recording twice. (10 points)

1.	The banking app should be further developed to include _____.	
2.	If you consider the big picture, you will see that our market _____ is decreasing.	
3.	The overall market has become more competitive with new _____ banking services.	
4.	Marianne notes that they don't have the _____ for offering added value to their customers.	
5.	If they want to create something quickly and of high _____, then money needs to be spent.	
6.	The users ask for more features when giving _____ of the app.	
7.	Charlie suggests that they can try to make customers dependent on these features so they are _____ likely to switch banks.	
8.	Committing to this action would mean taking on more _____ to do in their role.	
9.	They won't achieve their collective _____ if they don't spread their focus area.	
10.	Tracking spending will have a real _____ on customer engagement and satisfaction.	

PART 2 READING COMPREHENSION

A: (5 x 1 = 5 points)

Read the article below. Mark the statements true (T) or false (F) based on what you have read. Write your answers in the table below.

A live or hot wire is a conducting wire that carries electrical current in the form of oscillating voltage. Contact with the wire can cause an electrical shock in some settings, as a body can act as a ground, and the electricity will flow through the path of least resistance, the body, to reach the ground. Special precautions are necessary to limit the risk of electrical shock from live wires, whether they are downed electrical wires or household wiring.

By convention, many electrical codes insist on the use of colour coding in wiring for safety. A live wire may be black, brown, or red, depending on the region. This alerts people to the fact that it carries current and may be energised. In household electrical wiring, the complementary wire is the so-called “neutral.” Current flows through the live wire to reach an appliance, moves through the circuit created by the appliance, and exits through the neutral wire.

Technically, both live and neutral wires can carry current in such circuits, and some household wiring does not differentiate. In other cases, an electrician may install polarised outlets, where one hole is slightly smaller than the other. The smaller hole accommodates the live wire, while the larger hole is the neutral. This can increase the safety of appliances connected to the outlet, especially when paired with the use of a ground. The ground provides a safe path for electricity to limit the chances of electrical shocks.

The live wire is insulated, with the level of insulation depending on the voltage. Plastics, fabrics, paper, and gels can all be used as insulating agents. Insulation limits the contact between it and other conductors, which prevents shorts. It also ensures that a live wire doesn't energise something like the casing of an appliance. Insulation tends to wear over time, especially in harsh environments. It is important to periodically inspect electrical wiring for signs of hazards like worn insulation or heavily bent and potentially broken wires.

Safety around live wires is important, especially in the case of high-voltage wiring like that used in overhead electrical lines and industrial facilities. Many electrical systems have automatic cutoff features to de-energize in the event of a problem like a ground failure or a fallen power pole. In other cases, a technician may need to manually cut off power. Unless directed otherwise, it is advisable to assume that exposed electrical wiring is live, and could post an electrocution hazard.

1. Touching a live wire doesn't pose any risks.
2. A live wire may be green.
3. The ground increases the risk of electric shock.
4. Electrical wiring should be checked systematically over longer periods of time.
5. Exposed electrical wires should always be regarded as live.

1.	2.	3.	4.	5.
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B: (5 x 1 = 5 points)

Five phrases have been removed from the text. You must decide which phrase goes into which gap. There is one phrase extra which you do not need to use. Write your answers in the table below.

Borosilicate glass is a type of glass that includes at least 5% boric oxide. The boric oxide makes the glass resistant to extreme temperatures, and also (1) _____. This glass is very popular in the manufacture of scientific instruments, and it was once widely used to make glass for kitchens as well. Today, soda-lime glass is the glass of choice for kitchenware, due to the fact that it is generally cheaper to produce.

The invention of borosilicate glass is generally credited to Otto Schott, a German glassmaker who worked in the 19th century. By the late 1800s, the process for making it had been refined, and in 1915, a famous line of borosilicate (2) _____. Because it is stronger and more durable than conventional glass, it has a number of far-reaching uses.

This glass is not invincible, of course. It will crack if subjected to very sudden and radical temperature fluctuations, or if it is dropped. The glass is more likely to crack or snap than to shatter, however, making it (3) _____ is a concern. In the event that products made with the glass do crack, it is generally easier and safer to clean up than shattered glass.

Borosilicate glass can handle both extreme heat and cold, making it very popular for laboratory glassware and other scientific instruments. It also has a (4) _____, which can make it useful for things like telescopes and other high precision lenses where the surface of the lens must be very even to get a clear image.

The glass is also resistant to chemical corrosion, which can be extremely useful for experiments and chemical storage. Although all glass tends to be fairly chemically resistant, this variety is able to handle extremely volatile chemicals, along with nuclear waste.

In addition to being found in scientific labs, borosilicate glass can also be seen in windows, high-end lighting, cookware, and some other applications. As a general rule, (5) _____ than those made with ordinary glass, because these products require greater heat and more labour to produce.

- A. kitchen products were released under the Pyrex label
- B. products made with it will be more expensive
- C. speciality containers that require very high temperature tolerance
- D. reduced rate of thermal expansion
- E. safer to have around in a situation where breakage
- F. improves its resistance to chemical corrosion

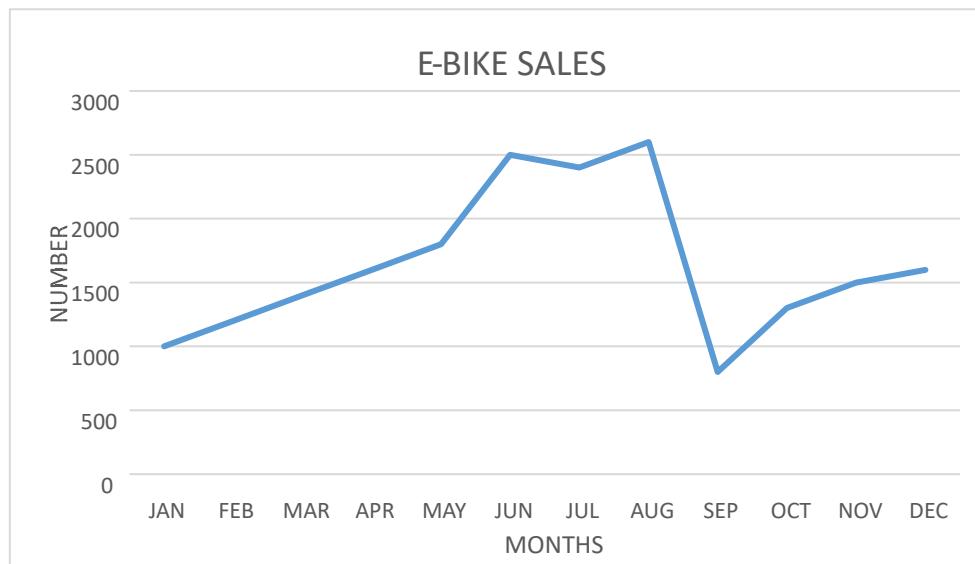
1.	2.	3.	4.	5.
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PART 3 LANGUAGE USE

TASK 4 GRAPH AND LETTER

A: (6 x 1 = 6 points)

Study the graph and complete the description with the expressions (A-H) given below. There are two extra expressions that you do not need to use. Put your answers in the table below.



- A. rising
- B. stood
- C. decline
- D. gradual
- E. hit a low
- F. recovered
- G. levelled off
- H. fluctuated

The graph shows the sales of electric bicycles by a leading Polish retailer last year. Electric bicycles are becoming more and more popular, particularly in big cities and the results are promising. In January the number of e-bikes sold (1) _____ at 1000. Through February and March, there was a (2) _____ rise in sales with 1200 sold in the second month and 1400 in the third one. Sales continued (3) _____ in April with 1600 e-bikes sold and May hitting 1800. In the summer months they (4) _____ around the 2500 mark because customers are always more interested in cycling when it is hot. In autumn electric bike sales usually (5) _____ and this is what happened last year too. In September the company sold just 800 bikes. Sales (6) _____ in October with 1300 bicycles sold and an early Christmas campaign with a price reduction helped sell 1500 e-bikes in November and 1600 in December.

1.	2.	3.	4.	5.	6.
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B: (7 x 1 = 7 points)

Study the letter carefully. Complete the letter with the phrases from A to G, then copy your answers to the table below. There are two extra phrases you do not need to use.

Dear Sir or Madam,

Thank you for your letter of 10 May 1. and price list. We have noted that your paints are made to the highest environmental standards, and we are sure that this will be 2. here. However, there is one disadvantage when comparing your prices to those of other manufacturers. Most firms in the EU are now packaging in one-litre tins. Since your paint is packed in pint tins, we feel that customers will suspect that they are not getting their money's worth. Because of this, we ask you 3. by 10%.

If you are prepared to do this, we 4. 10000 tins: 5000 tins white and 5000 tins red. 5., we would be willing to pay 50% of the 6.

..... of the goods. Please let us know as soon as possible if 7.

..... on the terms quoted.

Yours faithfully,

John Daren

Managing director

- A. would like to buy
- B. to reduce the prices quoted
- C. a good selling point
- D. international forwarder
- E. you can supply us
- F. enclosing your brochure
- G. on our side
- H. total invoice on receipt
- I. as soon as possible

1.	2.	3.	4.	5.	6.	7.
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TASK 5 GRAMMAR: (7 x 1 = 7 points)

Complete the sentences by choosing the correct option. Write your answers in the table.

1. If I had a bigger flat, I a party.
A have B will have C had D would have
2. He be famous. I've never heard of him.
A must B can't C mustn't D may

3. When I opened the door, there wasn't there.
 A someone B no one C anyone D nobody

4. John is the person I have ever met.
 A patient B more patient C most patient D patientest

5. We must run to the cinema. The film in five minutes.
 A starts B is starting C will start D started

6. Every item should carefully.
 A check B be check C be checked D be checking

7. If you want to travel by train, it is better to be at the station.
 A in time B on time C with time D from time to time

1.	2.	3.	4.	5.	6.	7.
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PART 4 TECHNICAL VOCABULARY

TASK 6: MATHEMATICS (10 x 1 = 10 points)

Complete the following sentences with the words below. There are three extra words that you do not need to use. Write your answers in the table below.

absolute, decimal, diameter, divide, force, multiplied, parallel, rectangular, round, thirds, thousand, thousands, average

- What was your (1) _____ speed from Poznań to Warsaw?
- 0.5 is a (2) _____ fraction.
- You must check the (3) _____ (\emptyset) before drilling.
- What's the (4) _____ value of $|-5|$?
- The shape of this garage is not square, it is (5) _____.
- The power of 5 kW is equal to five (6) _____ Watts.
- Two (7) _____ is approximately equal to 65 percent.
- | | These two lines are (8) _____.
- We will pay fifty-fifty, so please (9) _____ the total by two.
- Car tires have a (10) _____ shape.

1.	2.	3.	4.	5.
6.	7.	8.	9.	10.

TASK 7: FIELD-SPECIFIC (20 x 1 = 20 points)

INŻYNIERIA ZARZĄDZANIA i INŻYNIERIA BEZPIECZEŃSTWA

A: Fill in the blanks with the words given below. There are 3 extra ones that cannot be matched. Write your answers in the table below. (10 x 1 = 10 points)

laypeople	standards	casual	endorsement	apply
handle	implement	cautious	piecework	
deal	inspectors	put	establish	

1.	People who do not have specialized or professional knowledge of a subject are called _____.
2.	According to currently prevailing _____ of industrial design, a product must be cost-effective.
3.	Celebrity _____ is a technique that is very popular in advertising at the moment.
4.	SPC provides _____ with a sampling system.
5.	If we don't _____ a quality control program, we risk losing much profit.
6.	The increased use of computers will _____ most scientists out of work.
7.	I'd say there are 2 ways we could _____ with this.
8.	She doesn't like to rush into things. She's careful and _____.
9.	_____ is any type of employment in which a worker is paid a fixed piece rate for each unit produced or action performed, regardless of time.
10.	Through his accomplishments in industrial design, Loewy helped to _____ industrial design as a profession.

1.	2.	3.	4.	5.
6.	7.	8.	9.	10.

B: Match each term in column A with an appropriate definition from column B. There are three options in column B that cannot be matched. Write your answers in the table below. (10 × 1 = 10 points)

	A	B
1.	streamlined	A. to consider, judge all the facts and decide what is likely to happen
2.	maintain	B. it means that an appointment is now definite
3.	alliance	C. a particular set of rules, ideas which you use to deal with problems
4.	framework	D. designed for optimal efficiency
5.	confirmed	E. something available to exploit and use
6.	tailor	F. something that encourages you to do something
7.	layout	G. something which takes up your time because of the arrangements
8.	assess	H. to keep sth in good condition, checking it regularly and doing repairs
9.	convenient	I. a relationship or connection between two or more people, groups or nations
10.	incentive	J. an illustration or a table which shows information in a visual form
		K. to make or prepare sth following particular instructions
		L. the way in which a garden, building, or piece of writing is arranged
		M. suitable and arranged to fit in well with sb's plan or purpose