LESSON 1: RECENT DEVELOPMENTS IN IT

PART 1: VOCABULARY

Extra Exercises

Exercise 1: Look at the transcriptions then write the words

Transcriptions	Words
1. /kənˈvərdʒəns/	………………………………………
2. /ɪˈmædʒɪn/	………………………………………
3. /daɪˈrekt lɪŋks bɪˈtwin breɪn ænd kəmˈpjuːtə(r)/	………………………………………
4. /sərˈveɪləns/	………………………………………
5. /kætʃ ʌp wɪð/	………………………………………
6. /ˈɪmpækt/	………………………………………
7. /rəʊˈbɒtɪk pet/	………………………………………
8. /ˈtækl wɪð/	………………………………………
9. /ˈreɪdiˌoʊ ˈfrikwənsi tæg/	………………………………………
10. /ɪˌlekˈtrɒnɪk ˈhjuːmənz/	………………………………………

Exercise 2: Read these descriptions following then write down the associated terms

1. It is used in virtual reality games.	……………………………
2. This process involves programming, coding, making, engineering and testing.	……………………………
3. It means becoming larger or more important than something or someone.	……………………………
4. This is a verb and it means completely changing the way something is done.	……………………………
5. This is a kind of local or restricted communication network.	……………………………
6. This software can perform tasks or services for an individual based on verbal commands.	……………………………
7. This word refers to a machine or an object that is alike human or behaves like human.	……………………………
8. We use this to read or capture the information on a tag attached to an object.	……………………………

9. It is used to store, manage and process data on the Internet.	....
10. This is a brand of computer science which majors in creating intelligence machines such as speech recognition.	....

Exercise 3: Complete the words based on the given letters

1. You can check the **b**_ _ _ _ _ _ to read the information of your stuffs like clothes.

2. Can you **i**_ _ _ _ _ _ the day when humans have to move to another planet?

3. If your computing device isn't working, you should **t**_ _ _ _ _ the repairs by taking to the repair center.

4. When I graduate, I would like to work in the field of **g**_ _ _ **d**_ _ _ _ _ _ _ _ _ _.

5. In medication, scientists have successfully implanted **r**_ _ _ _ _ _ **d**_ _ _ _ _ into human body to fasten blood testing.

6. 1 **T**_ _ _ _ _ _ per second is equal to 1,000,000,000,000 bits per second.

7. In the future, patients who have got severe brain diseases can be cured by **a**_ _ _ _ _ _ _ _ _ **b**_ _ _ _ **i**_ _ _ _ _ _.

8. **F**_ _ _ **f**_ _ _ _ _ _ _ _ **r**_ _ _ _ _ were invented to promote the efficiency of people saving from fire disasters.

9. All of the prisoners are kept under **s**_ _ _ _ _ _ _ _ _ _ _ _ through security cameras.

10. Bill Gate has **i**_ _ _ _ _ _ _ _ _ _ on massive of students through his life story.

Part 2: GRAMMAR

Extra exercises

Exercise 1: Transfer following sentences into required ones

Note: Positive (+)

      Negative: (-)

      Interrogative: (?)

1. Scientist will have developed new technologies recently. (-)

   ....

2. Artificial intelligence will have been applied to speech recognition machine. (?)

   ....

3. Robotic pets won't have gone popular by 2050. (+)

   ....

4. In biotechnology, scientist will have implemented a new research about GMO food by 2020. (?)

   ....

5. Supercomputers will have been utilized to collect data from outer space. (-)

   ....

Exercise 2: Find and correct mistakes in these sentences

1. By (A) 2040, people will have saved (B) from (C) brain cancer by (D) artificial brain implant.

2. Humans definitely will (A) create more high-advanced (B) technological applications serving (C) their benefits in the future (D).

3. Supercomputer is bound (A) be (B) the most important device used (C) to collect (D) data about the black hole.

4. It's possibly (A) that robotic pet will become popular (B) among the young for its (C) adorable looking (D).

5. At (A) present, computer can detecting (B) errors which can't (C) be seen (D) by human eyes.

6. Game development are (A) becoming more and more (B) potential (C) to new graduates when it comes (D) to job opportunities.

7. With (A) the popularity (B) of touchscreen devices (C), smart phone is getting cheaper and cheapest (D).

8. Hydraulic chair in (A) reality game is able (B) render (C) player feel like being (D) in 3D world.

9. There is (A) no chances (B) that robots will take over (C) the planet like many people have predicted (D).

10. Firefighting robot is (A) likely to proving (B) its efficiency (C) in recent fierce fires (D).

PART 3: LISTENING

Exercise 1: Listen to the first part of a conversation between two programmers talking about this code controlling a robot using mobile phone and fill in the blanks with NO MORE THAN THREE WORDS

1. G-move tells the robot to go back, go forward or _____.

2. If g_turn has the value 0, the robot _____.

3. If g_Move and g_Turn are set to 0, the robot does not _____.

4. Key_press has the value of the key press _____.

5. If you press 'x' on the phone, the key takes the value _____.

Exercise 2: Listen to the rest of the conversation and answer the following questions with NO MORE THAN FOUR WORDS

1. What happens to the robot if the key_press is a?

2. How many steps does the robot move back if you press 'f'?

3. Which key_press makes the robot turn left?

4. Which key_press makes the robot turn right?

Exercise 3: Listen to a programmer and project manager discussing the schedule for a project and decide whether these following statements are True (T) or False (F)

1. The analyzing segment is being accomplished in week 4.

2. The alpha testing is planned to finish at the end of week 10.

3. The feedback from alpha testing is going to be dealt with 1 week later.

4. According to the chart, the beta testing lasts 3 weeks.

5. According to the chart, they have 2 weeks to deal with the beta testing's feedback.

6. The project can't be finished before week 18.

Exercise 4: Listen to a radio debate between two futurologists, Lianne bradley and Stefan Werner and answer the questions with NO MORE THAN THREE WORDS.

1. What will perform more precisely than humans?

2. How will we telephone others?

3. What will be no longer used in computing?

4. Which field should poor countries invest in so as not to be left behind?

5. How will the computers become?

PART 4: SPEAKING

Activity 1: Making predictions by using given structures

- Work individually

- Make predictions for following developments by using given structures

- Present to the class

Keyboard	Will possibly
Spaceship	Will have been
Telephone	Will definitely
Smart clothing	More and more
EVA	It is likely that

Example:

- *Keyboard will possibly be replaced by 2040.*

Activity 2: Discussion

- Work in pair

- Discuss the impacts of following developments

Robotic pet	Hydraulic chair	Front camera	Portable computing device	Bluetooth

Example:

A: What are impacts of EVA on our life?

B: I think, first of all, EAV is a really handy helpful assistant. She/he is designed to be available in every smart phone.

A: What's more?

B: Um, it is very fast for EVA to complete the individual tasks. It takes him/her a few seconds only to fulfill the missions.

A: Cool, I think………

PART 5: WRITING

Exercise 1: Rewrite these sentences using the words given in brackets

1. Robots definitely won't replace humans in some certain jobs such as engineer or teacher. (no chance)

   ....

2. Money probably won't disappear in the future due to its convenience when humans carry on face-to-face trade. (unlikely)

   ....

3. Computer will definitely do some certain jobs much more accurately compared to humans. (sure)

   ....

4. People will probably be presented space trips by 2050. (likely)

   ....

5. EVA will possibly fail to do the task in case it can't recognize the owner's voice. (could)

   ....

Exercise 2: Write about a recent development in IT that has impressed you the most (120-140 words)

Suggested questions:

1. What is the recent development in IT that impressed you most?

2. What is it about?

3. What is its impact on society?

4. What are its advantages?

5. Why are you impressed by that development?

6. What do you think about the future trend of this development?