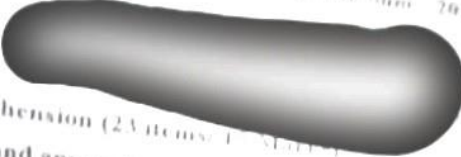


Student's Name &
Instructor's Name



Date: _____
Time allowed: 2 Hours

Reading Comprehension (23 items, 1-15/16/17)
Read the passage and answer the questions that follow.

Man or Machine

A During July 2003, the Museum of Science in Cambridge, Massachusetts exhibited what Honda calls 'the world's most advanced humanoid robot', ASIMO (the Advanced Step in Innovative Mobility). Honda's brainchild is on tour in North America and delighting audiences wherever it goes. After 17 years in the making, ASIMO stands at four feet tall, weighs around 115 pounds and looks like a child in an astronaut's suit. Though it is difficult to see ASIMO's face at a distance, on closer inspection, it has a smile and two large 'eyes' that cover cameras. The robot cannot work **autonomously**; its actions are 'remote-controlled' by scientists through the computer in its backpack. Yet, watching ASIMO perform at a show in Massachusetts IT seemed strangely human. The audience cheered as ASIMO walked forwards and backwards, side to side and up and downstairs. After the show, a number of people declared that they would like robots to play more of a role in daily life. One even said that the robot would be like 'another person'.

B While the Japanese people have made huge advances in solving some of the engineering problems of human dynamics and movements, for the past 10 years, scientists at MIT's former Artificial Intelligence (AI) lab have been making robots that can behave like humans and interact with them. One of MIT's robots, Kismet, is an anthropomorphic head, which means that it has human characteristics and has two eyes (complete with eyelids), ears, a mouth, and eyebrows. **It** has several facial expressions, including happy, sad, frightened and disgusted. Human speakers are able to read some of the robot's facial expressions, and often change their behavior towards the machine as a result. For example, they can play with it when it appears 'sad'. Kismet is now in MIT's museum, but the ideas developed here continued to be explored in new robots.

C Cog (short for Cognition) is another innovative project from MIT's former AI lab. Cog has a head, eyes, two arms, hands and a chest that their proportions were originally measured from the body of a researcher in the lab. The work on Cog has been used to test theories of embodiment and developmental robotics, particularly getting a robot to develop intelligence by responding to its environment through sensors and to learn through these types of interactions.

D MIT is getting furthest down the road to creating human-like and interactive robots. Some scientists argue that ASIMO is a great engineering accomplishment, but it is not an intelligent machine because it is unable to interact independently with unpredictabilities in its environment in meaningful



ways and cannot learn from experience. Robots like Cog and Kismet and new robots at MIT's CSA and media lab, however, might start acquiring such acts.

E These are exciting developments, especially creating a machine that can walk, make gestures and learn from its environment. These achievements are likely to be improved upon rapidly. Human robots could have a lot of uses in society, helping to free people from everyday tasks. In Japan, for example, there is an aim to create robots that can do the tasks similar to an average human and act in more sophisticated situations, such as firefighters, astronauts or medical assistants to the old people in order to balance the effects of an ageing population.

F Such robots say much about the way in which we view humanity, and they bring out the best and worst of us. On the one hand, these developments express human creativity, our ability to innovate and to extend our control over the world. On the other hand, the aim to create a robot like a human being is not encouraged by **dehumanized** ideas because human companionship can be substituted through machines; which means humans may lose their humanity when they interact with technology.

Questions (1-23)

- The reading passage has six paragraphs (A – F). Match paragraphs with the following headings (half a mark each).

1. The benefits and drawbacks of humanoid robots _____
2. An example of a human-sized robot _____
3. The artificial intelligence of robots _____
4. ASIMO robot evolution or development _____
5. Benefits of creating robots _____
6. Robotic human acts _____



- Decide whether the following statements are (True) or (False) (half a mark each).

7. MIT is getting closer to creating interactive robots. _____
8. ASIMO is not the greatest advanced robot. _____
9. It is quite not easy to see ASIMO'S face on closer inspection. _____
10. For the past decade, scientists at MIT's former Artificial Intelligence Lab have been making robots that behave like a human. _____
11. Scientists argue that ASIMO is a great form of engineering though it is unable to interact individually. _____

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- Scan the passage and answer the following questions (half a mark each):

12. In paragraph A, the word **autonomously** means:

- a. generally
- b. partially
- c. individually

13. In paragraph E, the word **dehumanized** means:

- a. to make more human
- b. to make less human
- c. to be a human

14. In paragraph B, line 5, *it* refers to _____

15. In paragraph E, line 1, *these* refers to _____

16. Find a signal word or marker in paragraph F which the writer used to link contrasting sentences.

- Complete the following summary of the paragraphs using **NO MORE THAN TWO WORDS** from the reading passage for each answer (1 mark each).

In 2003, Massachusetts displayed a robot named ASIMO which was invented by Honda, after a period of 17. _____ in the making. The operating information is stored in the computer in its 18. _____ so that scientists can control ASIMO's movement. While Japan is making great progress, MIT is developing robots that are human-like and can 19. _____ Human. What is special about Kismet is that it has different 20. _____ which can be read by human interlocutors. 21. _____ is another robot from MIT, whose body's proportion is the same as an adult. By responding to the surroundings through 22. _____, it could develop its 23. _____.



BZU-HUB

Grammar & Vocabulary (40 items/ 20 Marks/ half a mark each)

- Fill in the blank spaces with the suitable word from the list below.

active campaign nutritional serious overweight portion educational
concentration cultural participate

1. Most junk food has almost poor _____ value. It usually lacks the required nutrients for a balanced diet.
2. My cousin has been in the hospital for a long time. Unfortunately, he suffers from a _____ illness.
3. Our neighbor is seventy years old, but he is still _____. He likes to work in his garden every day.
4. The president's _____ was not well organized. As a result, he failed to get enough votes for presidency.
5. When one travels to a new country, he/she needs some time to get used to the _____ differences.
6. My father eats a small _____ of food for each meal so that he can avoid becoming obese.
7. Writing requires a lot of _____. It is a good idea to be alone.
8. The _____ level at Birzeit University is quite high; hundreds of students graduate every year in all fields of study.
9. I'm a few kilos _____. I need to go on a diet.
10. The Soviet Union was not permitted to _____ in the Olympic Games until 1952.

-Choose the correct answer to complete each of the following sentences:

11. The flying car invention has very unique advantages ____ include saving the driver's time, money and effort.
a. who b. which c. , that d. than
12. Mahmoud Darwish is a famous Palestinian poet ____ wrote about the freedom and suffering of his people.
a. who b. which c. whose d. where
13. One good thing _____ the flying cars is that they save the passenger's time.
a. of b. about c. against d. on



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14. The main argument in favor _____ the robot suits is that they will help people with disabilities.

- a. of b. about c. from d. against

- Choose the correct modal and adverb phrases to complete the sentences about the future with the probability shown in brackets.

15. We *definitely won't* / *will probably* be able to buy robots to clean our houses in the next five years.

16. Most people *probably won't* / *could possibly* have smart homes in the next 25 years. (50%)

17. There *will definitely* / *probably won't* be more and more eco-friendly options for cars in the future.

- Fill in the blanks with the correct adjective from the list. You will not need all the words.

social cultural physical personal educational emotional

18. To inform students about the dangers of Corona virus, the university organized a /an _____ workshop.

19. I don't like to share a room with others. I usually book my own room because I enjoy my _____ space.

20. Hitting young children can have bad _____ effects. It hurts their feelings and makes them sad.

21. Joining a gym is an interesting _____ opportunity. You will meet and _____ out with new people every day.

22. If you want to improve your shape and body, I suggest you do some _____ activity.

- Complete the sentences with the words from the box. You will not need all the words.

discovery sure mistake difference time mind

23. Please try not to make the same _____ during your final exam!

24. Can one person really make such a _____ to the world?

25. It was in this room that Marie Curie made her amazing _____.

26. I need to make _____ the results are correct before sending them in.



BZU-HUB

- Use the correct form of the verbs in the brackets. Use active or passive.
28. The diamonds _____ (discover) in 1972.
 29. We _____ (invent) by schoolchildren in Australia.
 30. The first email _____ (develop) the smartphone app as part of a national competition.
 31. William Moggridge _____ (invent) in 1971.
 32. George de Mestral _____ (design) one of the first laptops in 1979.
 33. _____ (create) Velcro- he got his inspiration from a plant he saw while walking out.

- Fill in the blanks with the correct phrasal verb from the list.

get over came down with take up try out give up
join sign up cut down

33. My doctor told me that I need to _____ on salt; it is not good for my blood pressure.
34. We need an extra player for our basketball team, why don't you _____ in the game. You play well.
35. I want to _____ for the singing competition. I think I can sing beautiful.
36. How long did it take you to _____ Corona virus?
37. Many people nowadays _____ yoga classes, they want to try something new.
38. Last week, I _____ a terrible cold. I suffered for three days.
39. You need to _____ for the new cooking course, you will really enjoy it.
40. I need to lose weight, I decided to _____ chocolates and cake.

