

Date: \_\_\_\_\_

## Al-Ma'aly High School

### An Initiation Test

For the students who are upgrading to the 10<sup>th</sup> grades

Please fill in the blanks



**Last/surname:** \_\_\_\_\_

**First name:** \_\_\_\_\_

**Grade:** \_\_\_\_\_ %

**Time allotted:** 90 minutes

#### Instructions:

-  You can use a dictionary.
-  Please use a blue or a black pen to answer your exam.

Good luck,

PART I: ACCESS TO INFORMATION FROM WRITTEN TEXT. (70 POINTS)

Read the book review and answer questions 1-8.

LET YOUR CAR DO THE DRIVING

By Leslie James

p.1 How can we make driving safer? That's easy – by getting rid of drivers! Google's first robotic, "driverless" cars are already on the roads. From San Francisco to Los Angeles and on to Google's headquarters in Mountain View, California, these amazing cars have already traveled over 300,000 kilometers.

p.2 Google's project director, Professor Sebastian Thrun, explained how the car works in a speech he gave at a conference in San Francisco. The "heart" of the system is a device on the roof of the car which creates a detailed 3-D (three-dimensional) map of the surroundings. The car also carries four radars – two in the front and two in the back – which allow the car to "see" and react to fast or heavy traffic. Another camera on the car detects traffic lights, while a GPS unit keeps track of where the car is. A computer inside the car coordinates all of these systems.

p.3 Professor Thrun and his team are convinced that these "smart" vehicles can and will make transportation much safer and far more efficient. First of all, they explain, these cars react faster than humans to avoid accidents. Since they are less likely to crash, the cars can be built with lighter materials. This will save on expensive fuel. In addition, since they are controlled by computer, these smart cars will be able to travel closer to each other, making better use of empty road space.

p.4 Professor Thrun's motivation for developing driverless cars came from a personal tragedy. At a recent talk he gave, Thrun said, "As a boy, I loved cars. When I turned 18, I lost my best friend to a car accident. And then I decided I'd dedicate my life to saving one million people every year." Thrun goes on to point out that most accidents happen as a result of human error, not machine error. He adds that it is therefore logical to hand over the job of driving to machines.

p.5 Thanks to Professor Thrun and his team of dedicated engineers, it is now possible to imagine an improved world – one with safer roads and fewer accidents

Answer questions 1- 8 in English according to the article and the instructions.

1. Why does the writer call Google's cars "amazing" in line 4?

ANSWER: \_\_\_\_\_

(7 points)

2. COMPLETE THE SENTENCE. (paragraph 1)

San Francisco, Los Angeles and Mountain View are mentioned because they are all places where \_\_\_\_\_

(7 points)

3. What is the purpose of the driverless car's four radars? (paragraph 2)

ANSWER: \_\_\_\_\_

(8 points)

4. PUT A ✓ BY THE TWO CORRECT ANSWERS.

In paragraph 2 we learn (-).

\_\_\_ i) where the driverless car is built

\_\_\_ ii) who presented the driverless car

\_\_\_ iii) how the driverless car works

\_\_\_ iv) why driverless cars are important

\_\_\_ v) what materials driverless cars are made of

\_\_\_ vi) why the driverless car was built

(2 x 8 = 16 points)

5. COMPLETE THE SENTENCE. (paragraph 3)

Driverless cars will be able to take advantage of the whole area on the road

Because \_\_\_\_\_

(8 points)

6. According to paragraph 4, Thrun was motivated by (-).

- i) his love of cars
- ii) losing a friend
- iii) a talk he gave
- iv) wanting to invent something

(8 points)

7. According to paragraph 4, what is the most common cause of accidents?

ANSWER: \_\_\_\_\_

(8 points)

8. Another title for this report could be (-).

- i) An Interesting Man
- ii) Adapting Cars
- iii) Smart Vehicles
- iv) Improving Our Roads

(8 points)

PART II: WRITTEN PRESENTATION. (30 POINTS)

Read the instructions below; write 8 lines accordingly.

Which famous person would you like to give a talk at your school? Give reasons to explain your choice.

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