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Mohamed Bouslimani Middle School – Draa S'mar **Year: 2017/ 2018**

Full Name: ..... **Class:** 3MS… **Time:** 1:30

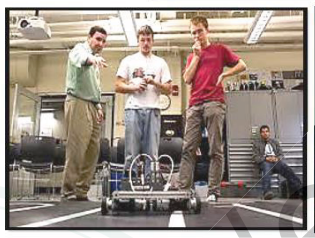
English Exam N° 2

The Father of Mechatronics

Professor Kamel Youcef Toumi is one of the most famous Algerian immigrant scientists. He was born in 1954, in ksar Boukhari (70 kms from Medea). He is the son of a respected family. At the age of 3, his father died as a martyr. So, he grew up under the care of his older brother. In his town, he followed his primary and middle school studies. He, also, learnt the Quran by heart.

After obtaining the BEM Certificate, he left to Lycee Fekhar in Medea where his thinking towards the achievement of science changed. As result, he passed the Baccalaureate in Mathematics with an excellent grade in 1974. After that, he went to Bab E'Zouar University where he spent only one year. In 1975, he received a scholarship from the Algerian State to go to the USA. There, he did his graduate studies at Cincinnati University. He had a Bachelor degree in the Mechanical Engineering in 1979. Since then, he held a Master and a Ph.D. from Massachusetts Institute of Technology in 1981 and 1985. Five years later, he invented the fastest robot in the world capable of writing 1300 lines per second.







Dr. Youcef Toumi is the author of more than 150 publications, had nearly 50 patents that served humanity, what nominated him for the Nobel Prize in 2005.

Adapted from:
algerianscholarward.org
reseachers-2015.blogspot.com.tr
Aljazeera.net

Part I: A) *Reading Comprehension:* (7pts)
Read the text carefully and do the following activities:

Activity One: *Complete Dr. Toumi ID Card.* (3pts)

Dr. Toumi ID Card



Full Name: .....
Date & Place of Birth: .....
Occupation: .....
Degrees:.....
.....
Invention : .....
Patents:.....

Activity two: *Answer these questions:* (2pts)

1. Is the text excerpted from web pages?
.....
2. Did Dr. Toumi do his graduate studies in Algeria?
.....
3. What did he create in 1990?
.....
4. When was he nominated for the Nobel Prize?
.....
.....

Lexis: *Match each word with its appropriate definition:* (2pts)

Scientist	Person who has expert knowledge of one / more of the natural or physical science.
Invent	Technology combining electronics and mechanical engineering.
Mechatronics	Create or design something that did not exist before.
Patent	A document which prove that a person or a company has the legal right to make, use or sell a particular invention or product

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B) Mastery of language (7pts)

Activity one: *Correct the underlined mistakes: (2pts)*

Sience is the **studi** and knowledge **ov** the structure and behaviour of natural **thingz** in an organized way.

.....

Activity two: *Combine the following sentences using the appropriate relative pronoun:* (3pts)

. **where – which – who**

1. **a.** In the middle school stage, Dr. Toumi spent some time **in a mechanic's garage**.
   b. He installed engines and manufactured some mechanical machines **there**.

.....

.....

2. **a. Dr. Toumi** created the fastest robot in the world in 1990.
   b. Dr. Toumi is called "the Father of Mechatronics".

.....

.....

3. **a.** Dr. Toumi's works focus on **searching**.
   b. This searching is based on theory of design and its applications in dynamic system.

.....

.....

Activity three: *In each list, pick out the words with the different sound:* (2pts)

1. p**a**ssed – f**a**mily – immigr**a**nt – gr**a**duate
2. prof**e**ssor – resp**e**cted – exc**e**llent – m**e**chanic
3. fam**ou**s – br**o**ther – **o**btaining – technol**o**gy
4. sc**ie**ntific – ach**ie**vement – rec**ei**ved – poin**ee**r

Part II: *Written Expression* (6pts)

Use the ID Card notes to write Dr. Melikechi's biography:

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Dr. Melikechi ID Card



Name: Noureddine
Surname: Melikechi
Occupation: an atomic & optical scientist

Date & place of birth: 1958 – Thenia, Boumerdes
Degrees:

* (**get**) High studies diploma in physics - 1980
* (**held**) A Master of Science in Physics, aPh.D. in the Laboratory of Professor Leslie Allen - England
* (**leave**) to USA – 1990 – worked on laser and biomedical research program
* Now – (**work**) – a team of the NASA Mars Rover mission

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