|  |
| --- |
| **Al-Djadida 1 secondary school May,2014.****2nd year literature & Philosophy stream Third Term Exam of English** |

**Read the following passage carefully then do the activities below :**

The microwave oven did not come about as a result of someone trying to find a better, faster way to cook. During World War II, two scientists invented the magnetron, a tube that produces microwaves. Installing magnetrons in Britain’s radar system, the microwaves were able to spot Nazi warplanes on their way to bomb the British Isles.

By accident, several years later, it was discovered that microwaves also cook food. Called the Radar Range, the first microwave oven to go on the market was roughly as large and heavy as a refrigerator.

The idea of using microwave energy to cook food was accidentally discovered by Percy LeBaron Spencer of the Raytheon Company when **he** found that radar waves had melted a candy bar in his pocket. Experiments showed that microwave heating could raise the internal temperature of many foods far more rapidly than a conventional oven.

Microwaves are reflected from most metals but they produce inductive resonance’s in the atoms of many other substances. It was the discovery of **their** reaction to metals that led to the invention of radar. It was their ability to produce resonant coupling **that** led to the invention of the microwave oven.

 Source :**www.ideafinder.com**

**I . Reading Comprehension : (7pts)**

**1. Choose the general ide of the text :**

a. Percy Spencer worked hard untill he invented the microwave oven ;

b. Percy Spencer’s discovery of the relative theory ;

c. The accidental discovery of the microwave oven by Percy Spencer.

**2. Are the following statements true « T » or false « F » ? Correct the false ones.**

a. The microwave oven was discovered before the World War II .

b. The first microwave oven was called the Radar Range.

c. Microwaves’ reaction to water led to the invention of the radar.

d. Microwave oven made people’s life easier and faster.

**3. Answer the following questions from the text :**

a. What were the microwaves able to do ?

b. How was the first microwave oven ?

c . When did Spencer discover that microwaves can cook ?

**4 . In which paragraph is it mentioned that microwaves heat food faster than traditional ovens ?**

**5. What or whom do the underlined in the text words refer to?**

He **(§3)**………………………… their **(§4)** ……………………… that **(§4)** ………………………….

**II. Text Exploration : (8pts)**

**1. Puctuate the following sentence :**

in 1967 the domestic radarage microwave oven was introduced by amana a devision of raytheon company

**2. Find in the text words opposite in meaning to :**

Slight (§2)≠ ……………………………. external (§3)≠…………………………

**3. Complet the following table :**

|  |  |  |
| --- | --- | --- |
|  **Noun** |  **adjective** | **verb** |
| **Example :conservation**…………………… Communication |  **Conservative**………………………………………………………… | **To conserve**To persuade………………………… |

**4. Put the verbs between brackets in the correct tense :**

Engineer Percy Spencer (to be) the one who discovered that the food (can/be/heat) in the microwave. But in reality, he was studying something totally different. He (to notice) that in the presence of such a device a chocolate bar that he kept in his pocket melted. If this discovery (be/not/discover), our lives wouldn’t have been easier.

**5. Fill in the blanks with the appropriate adjectives among the followings :** the first- highly accepted- well-known- well-established.

H.G Wells is a……………………….. writer. He wrote ………………… sci-fi novel « The War of the Worlds » which was………………………. and ………………………….

**6. Classify the following words according to the pronunciation of their final « s » :**

 writers- discoveries- microwaves- accidents- substances

|  |  |  |
| --- | --- | --- |
|  /s/ |  /z/ |  /iz/ |
|  |  |  |

**III. Written Expression : (5pts)**

 **Choose one of the following topics :**

**Topic one :** Write a short biography about Percy Spencer using the following notes :

**Place and date of birth :** Howland, Maine in July 19,1894.

**Family :** dead father/His mother left him to his uncle and aunt.

**Education :** left grammar school at 12.

**Career :** Joined the US navy at 18. Self-education in the field of radio technology. One of the world’s leading experts in radar tube design by 1939. The chief of the power tube division  at [Raytheon](http://en.wikipedia.org/wiki/Raytheon). Later, Senior Vice President and a Senior Member of the [Board of Directors](http://en.wikipedia.org/wiki/Board_of_Directors) at Raytheon.

**Marriage :** his wife Louise/three children.

**Death :** September 8,1970 ( aged 76)

**Or : Topic two :** Write a short commentary on the text above, taking into consederation the topic, the general idea, and your opinion. Start like his : **The text is about………………………………..**

**Allah helps those who help themselves**

**Good luck & happy holidays my dears ☺**