Ibn Khaldoun University -Tiaret –

Faculty of natural and life sciences

Department of Nutrition and Food Agriculture Technology

**Scientific English exam**

**Date: 16/05/2024**

**Duration: 1h30 1st year Master “Food Agriculture and quality control”**

1. **Answer briefly the following questions according to the text:**

The word biotechnology is derived from two words biology and technology. Biology means special knowledge about organisms and technology means a manner of accomplishing a task specially using technical process, methods or knowledge. Through the application of this technology, from cell of an organism, organism or a part of it, any new organism with new characters is developed or any processed or by-product substance is produced from this organism, in order to live well in a healthy and beautiful environment.

Biotechnology involves the use of living organisms in industrial processes particularly in agriculture, food processing, and medicine. Biotechnology has been around ever since humans began manipulating the natural environment to improve their food supply, housing, and health.

* What is the above text about? (3pts)
* How can technology serve biology? (3pts)
* What impact does biotechnology have on human life? (3pts)

1. Explain how to write a research paper? (6pts)
2. Give a short summary about the scientific subject that you have done. (5pts)

**Good Luck !**

1. **Answer briefly the following questions according to the text:**

* What is the above text about? (3pts)

The text provides an introduction to biotechnology, explaining its etymology and definition. It describes biotechnology as the application of biological knowledge and technology to develop new organisms or products from existing organisms, aiming to improve living conditions. The text highlights that biotechnology involves using living organisms in industrial processes, particularly in sectors such as agriculture, food processing, and medicine.

* How can technology serve biology? (3pts)

Technology serves biology by providing tools and methods to manipulate and understand living organisms. In biotechnology, this involves using technical processes to develop new organisms with desired traits or produce useful substances. This application is particularly important in agriculture, food processing, and medicine, where it helps improve food supply, health, and environmental quality. Through biotechnology, humans have long enhanced their ability to live well by improving their environment and health.

* What impact does biotechnology have on human life? (3pts)

Biotechnology significantly influences human life by improving food production, enhancing medical treatments, and promoting environmental sustainability. It allows for the development of genetically modified organisms with better traits, advances in medicine such as new therapies and vaccines, and more efficient industrial processes. Overall, biotechnology contributes to better health, increased food security, and a healthier environment.

1. Explain how to write a research paper? (5pts)

**General structure of a research paper:**

**\* Title, abstract, keywords:** make them easy for indexing and searching (informative, attractive, effective).

**\* Main text (follows the IMRAD format):**

**- Introduction:** what did you or others do? Why did you do?

**- Methods:** how did you do it?

**- Results:** what did you find?

**- Discussions:** what does it all mean?

**- Conclusion**

**- Acknowledgements**

**- References**

1. Write a summary about the scientific topic that you have done. (5pts)

**Dr. BOURIAH Nacéra**