

LYCEE MODERNE CHEICK MODIBO DIARRA-L.M.C.M.D

Bamako-Hamdallaye - TEL : 76 30 00 27/66 66 99 91/75 36 21 81

“Le Défi de la Réussite et de l'Excellence”

COMPOSITION DU 2^{ème} TRIMESTRE 2024-2025

Classe : TSE	Epreuve de : Anglais	Coef. 2	Durée : 2 heures	Date : 28/04/2025
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TEXT: The new genetics.

Man is on the verge of a biological revolution. Modern biology has opened a Pandora's Box of possibilities for man to manipulate and control his own development and the future evolution of his species.

Genetics engineering is one of the most important concepts to arise on the history of mankind because for the first time, a living creature understands its origin and can undertake to design its own future.

The biological basis study for genetic engineering began in the mid nineteenth century when the Austrian Mark Mendel discovered that some sorts of hereditary factors operated in a predictable fashion to determine the characteristics of an organism. Later, Mark Mendel's factors were named “genes” and were shown to reside on the chromosomes in the nucleus of the cell. In the 1953's, James Watson and Francis Crick launched the molecular phase of genetics with the proclamation that D N A (Deoxyribo Nucleic Acid) was the genetic material. Nowadays, our understanding of genetics, gene structure and function is so detailed that goal-directed manipulation of the hereditary process has led to the threshold of genetics engineering.

NB: *on the verge* = *au bord de*; *Pandora's Box* = *Boite de Pandore*.

I-READING COMPREHENSION QUESTIONS

A-True/False statements: Copy the true statements and correct the false ones! (2pts)

- 1- Modern biology gave many opportunities to man to do what he wants.
- 2- Genetic engineering cannot change anything.
- 3- All genetics is based on D.N.A.
- 4- The Austrian Mark Mendel started molecular genetics.

B-Multiple choice questions: Copy the full sentence containing the right answer in each case! (2pts)

1- Genes are said to be in.....

- a) the nucleus.
- b) the D.N.A.
- c) the hereditary factors.
- d) the head.

2- DNA (Deoxyribo Nucleic Acid) is.....

- a) secondary in genetics.
- b) a problem in genetics.
- c) essential in genetics.
- d) not important in genetics.

C-Information questions: Answer these questions based on the text! **(1pts)**

- 1- Who discovered genes?
- 2- When did genetic engineering start?

II- LANGUAGE

A- Vocabulary: Match each word of the column A with its synonym in the column B! **(2pts)**

<u>A</u>	<u>B</u>
Important	Work
Operate	Being
Concept	Significant
Creature	Idea

B- Function: Mamoutou Gadjigo is a good specialist doctor who treats many hereditary diseases. Now he wants to abandon this work to go to the United States. Give two ways to advise him to continue his good job! **(2pts)**

- 1).....
- 2).....

C- Grammar: Put the verbs between parentheses into gerund or infinitive form! **(2pts)**

Some persons complain about **(fish)** because they want **(protect)** species of fish. We should stop **(destroy)** water and forest that serve as refuges to many species. If we decide **(do)** it; we can.

D- Translation:

- 1) Translate into French the following passage!

Genetic engineering has permitted to find solutions to a great number of problems man had. We are still unable to solve some. **(1pt)**

- 2) Translate into English the following passage!

La biologie joue un rôle important dans la vie de l'homme et la plante. C'est la base de toute modification. **(1pt)**

III- COMPOSITION Choose only one topic! **(5pts)**

- 1) Scientists are making new discoveries. Do you think that genetic engineering is still needed today? Give reasons to support your position!
- 2) Kadia Diarra, is a student at IPR de Katibougou 5th year Agronomy branch (Koulikoroe). As woman, she wants to be an engineer in agronomy in order to help the farmers of Mali. So, she wants to send a letter to the Minister of agriculture of Mali to present her future plan.

Write Kadia's letter!

PERFORMANCE INDICATORS

- Clean exam sheet: **(0.5pt)**
- Originality of ideas
- Questions based on the text: **(0.5pt)**
- Function: **(0.5pt)**
- Composition **(0.5pt)**

GOOD LUCK!