

MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA RECHERCHE	BACCALAUREAT 2020	DUREE : 3 H
OFFICE DU BACCALAUREAT	ANGLAIS	Coef. : 2
	SERIES CD	

## SESSION NORMALE

### Section one: Comprehension

*Read the following text carefully and answer the questions below.*

#### **Text: The right time for treatment**

The effect that drugs have depends on the time at which they are taken. The new science of "chronobiology" seeks to explain the reasons for this, looking for answers in the rhythms that control the secretion of hormones and the functioning of our organs. By following these rhythms, "chronotherapy" is getting some spectacular results.

The idea that all living creatures have an internal timing mechanism is not a new one. But it was not until 1962 that the first conclusive experiment was carried out : after two months spent underground a human guinea pig maintains a sleeping/waking rhythm of 25 hours, which is very close to the 24-hour solar day or circadian rhythm. Since then, hundreds of experiments both underground and in laboratories have shown that not just the sleeping/waking rhythm but also the release of hormones and the volume of urine maintain the same circadian rhythm. There are, of course, other longer rhythms covering periods ranging from 30 days to a year, the circannual rhythm. Indeed, new rhythms are being discovered all the time, nearly all of which are totally independent of the environment. In fact, all organic functions, and the whole endocrine system operate to rhythms of greater or lesser complexity.

The long quest to find the master clock in the human body has led researchers to a tiny structure located just above the junction of the optic nerves, the suprachiasmatic nuclei. But the real key is to be found in the genes.

With the new science of chronotherapy, the aim is to follow the natural rhythms of the body so as to increase the effect of drugs, while improving the body's tolerance of them. The idea is simple : as the body produces a hormone at a specific time, it is best to give drugs of the same chemical group at the same time. In this way, the drug does not disturb the secretion of the hormone but reinforces its effects.

**Anonymous**

#### **A. Reading comprehension questions. (5 points)**

- 1- There is a biological clock in our body. T/F (0,5 pt)
- 2- What is the aim of chronotherapy? (1 pt)
- 3- Why can we say that chronotherapy is a good discovery? (1 pt)
- 4- According to doctors of chronotherapy, what is the right time for treatment? (1 pt)
- 5- Can science bring about one day a disease free world? Discuss. (1,5 pts)

#### **B. Vocabulary (4 points)**

- 1- Form an adverb from each of the following words. (1 pt)

a) depend                      b) reason                      c) human                      d) improving

- 2- Derive a verb from each of the following words. (1 pt)

a) depth                      b) width                      c) distance                      d) black

- 3- Form a noun from each of these words. (1 pt)

a) explain                      b) maintain                      c) located                      d) disturb



4- Match the words in column A with their synonyms in column B. (1 pt)

C<sub>A</sub>

- 1- circadian rhythm.
- 2- biological clock.
- 3- circannual rhythm.
- 4- chronotherapy.

C<sub>B</sub>

- a) Internal time mechanism.
- b) rhythm covering 24 hours.
- c) following the natural rhythm of the body when administering drugs to make them more effective.
- d) rhythm covering a year.

**Section two: Linguistic Competence (4 points)**

**A. Rephrasing: (1 pt)**

- 1-a) "Are you offering to sell your car?" Jane asked Sara.  
b) Jane asked Sara .....
- 2-a) "Why don't you take a rest?"  
b) He suggested that.....
- 3-a) "I am sorry, I am late". He said.  
b) He apologized .....
- 4-a) "Why don't you order another one?"  
b) She advised her.....

**B. Complete with : provided, unless, whether, although or yet. (1 pt)**

- 1- You'll have to obey the rules \_\_\_\_\_ you like it or not.
- 2- We'll support him \_\_\_\_\_ he takes this opportunity seriously.
- 3- \_\_\_\_\_ he was in China, he didn't have the coronavirus.
- 4- Don't say anything \_\_\_\_\_ you are sure they'll back you up.

**C. Join the two sentences with a relative pronoun: who, which or whose. (1 pt)**

- 1- A natural disaster struck the US in 1900. It was the greatest ever.
- 2- Some athletes tested positive in the Olympic trials. They were not allowed to compete in the game.
- 3- We had to answer calls from people. Their homes had been damaged.
- 4- Three guards accompanied him. They looked terrified.

**D. Passive or active voice. (1 pt)**

- 1- The government will announce new measures.
- 2- The police have charged two fifteen-year-old boys with murder.
- 3- They are implementing new programmes.
- 4- A hurricane destroyed much of the city.

**Section Three: Essay Writing (4 points)**

You are the newly elected mayor of your municipality. At a gathering that you are organizing, you intend to present your vote of thank. In your speech that you will deliver at the public place of Kwacha on 2<sup>nd</sup> June 2020, outline your plans for development and what you are expecting from your people to achieve your goals. You are mayor ALAKPATO.  
(In not more than 150 words)

**Section four: Translation (3 points)**

Translate the following passage into French:

**A touch of flu**

David woke up with a headache and a sore throat. He called Joan and told her he felt ill. She took his temperature and saw it was thirty-nine degree Celcius (39°C), so she called the doctor. He felt David's forehead and listened to his chest. Then he said : It's a touch of flu, nothing serious.