**الجمهورية الجزائرية الديمقراطية الشعبية**

وزارة التربية الوطنية

امتحان بكالوريا تجريبي التعليم الثانوي الشعبة: علوم تجريبية

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إختبار في مادة: اللغة الإنجليزية المدة : ساعتان و نصف

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**على المترشح أن يختار أحد الموضوعين التاليين:**

**الموضوع الثاني**

**Part One: Reading (14 points)**

**A-Comprehension: (08 points)**

**Read the text carefully and do the activities**.

**The Scientific Explanation of the Universe**

The careful studies made by astronomers reveal that the forces which control the movement of the planets, stars and galaxies in the universe are activated by laws of a high precision. If we take just the example of our planet we quickly notice that the whole organization on which it stands is made possible only because it is governed by rules of an exceptional accuracy. The distance separating it from the sun and its inclined position **both of** which remain constant are elements that are constructed so delicately that if any action comes to disturb them it, will bring a series of terrible catastrophes. For example, any slight variation in these aspects will produce important changes in the atmospheric condition of Earth. Then, seasons will disappear and temperatures will reach intolerable extremes and all the living species will die.

Also, the energy that is needed for our planet to turn round **itself** and rotate at the same time around the sun without any interruption must be steady and obey the same pattern day after day. If any disorder happens to modify this system, our world will get out of its orbit and will either crash on the surface of the sun or just get hurled violently into the infinite space and get reduced into ashes. It is true with the other realities linked with our planet. If the amount of oxygen gets reduced and the quantity of rain falls declines during a certain number of years or if we collide with some wandering object from the sky a comet or a meteor, no creature will be able to survive. We don’t know how long the precise organization sustaining our world will last, but as long as it holds us in its protective plan every fact will take place smoothly and life will continue to exist and prosper on it.

**1- The text is:** descriptive - narrative - expository **(1pt)**

**2- Say if the following statements are true or false according to the text: (2pts)**

a) Astronomers are not sure about whether there is order in the universe or not.

b) Order and regularity from the basis on which the universe stands.

c) The Earth can move farther from the sun without any risk.

d) A violent contact between our planet and a comet is a thing that will not bring any danger to mankind.

**3- In which paragraph it is mentioned that**:

Activation of the movement of the planet is due to laws of high precision **(1pt)**

**4- Answer the following questions according to the text: (3pts)**

a) What do astronomers inform us about?

b) What makes it possible for our planet to have a tolerable weather?

c) What will happen if the amount of oxygen on earth decreases?

**5- What or who do the underlined words refer to in the text? (1pt)**

Itself (§2) both of (1§)

**B/ Text exploration (7pts)**

**1- Find in the text words closest in meaning to: (1pt)**

Show (1§) = ………… power (§2)=…………. Path (§2) = ………… Enter on (§2) = ………..

**2- Complete the following chart as shown in the example: (1.5pts)**

|  |  |  |
| --- | --- | --- |
| **Verb** | **Noun** | **adjective** |
| **example** | ***to produce*** | ***production*** | ***productive*** |
|  | To complete | ……………………….. | ……………………….. |
| ……………………….. | Length | ……………………….. |
| ……………………….. | Brightness | ……………………….. |

**3- Ask question on the underlined word: (0.5pt)**

The average distance of Earth from the sun is **150 million Km.**

**4- Complete sentence (b) so it means the same as (a). (1.5pts)**

a- NASA is launching a new satellite into space.

b- A new satellite ………………………………

a- “Space trips will soon be possible”, he said.

b- He said ………………………………………

a- The study of the universe is interesting consequently many organizations are still making researches to discover it.

b- The study of the universe is ……………………………………………………..

**5- Reorder the following sentences to make a coherent paragraph: (1pts)**

a- Huge amount of money were used.

b- Is this not a waste of time and money?

c- Just to examine dust and stones from the planet.

d- In the end they were put in some Museums.

**6- Mark the stressed syllable in the following words: (1pt)**

Success - orbit (v) - atmospheric - density.

**Part two: Written expression: (5pts)**

**Choose only one topic of the following ones:**

**Topic one**: in a composition of about 12 lines write a presentation about Earth, using the notes provided-Position from the sun: 3rd diameter, 12756 Km-Average distances from the sun: 150 million Km-Rotation period: 365/4 days-Numbers of moons: 1

**Topic two**: Write a letter of opinion to a UNICEF magazine about the problem of the abuses of the rights of the children in the world.

Support your opinion with examples and suggest ways to change the situation.