

الجمهورية الجزائرية الديمقراطية الشعبية

الديوان الوطني للامتحانات والمسابقات

وزارة التربية الوطنية

دورة : 2016

امتحان بكالوريا التعليم الثانوي

الشعبة : علوم تجريبية، رياضيات، تقني رياضي، تسير و اقتصاد

المدة : 02 سا و 30 د

اختبار في مادة : اللغة الإنجليزية

على المترشح أن يختار أحد الموضوعين التاليين:

الموضوع الأول

Part One: Reading

(15 points)

A/ Comprehension and Interpretation

(08 pts)

Read the text carefully and do the activities.

NASA has confirmed the discovery of Kepler 452b, the most Earth-like planet ever encountered. It is located in the Goldilocks zone, an area in which a planet is just the right distance from a host star. This planet would have "just the right" conditions to support liquid water and possibly even life. This extraordinary world was spotted by the Kepler Space Telescope and is the first confirmed planet among over 500 potential candidates being added to the mission's catalogue. The planet is 1,400 light-years away from our Solar System and orbits a star that astronomers call our Sun's cousin. While this star is four percent more massive and ten percent brighter, the distance between it and Kepler 452b is approximately the same as Earth's distance from the Sun. The planet itself has a radius 60 percent larger than Earth and is suspected to be rocky, with a thick atmosphere and a significant amount of water.

Kepler 452b's host star is 1.5 billion years older than ours, and will give scientists a glimpse into how the Sun's age will eventually affect Earth. "The increasing energy from its aging sun might be heating the surface and evaporating any oceans. The water vapor would be lost from the planet forever," said Doug Caldwell, a scientist assigned to the Kepler mission. "Kepler 452b could be experiencing now what the Earth will undergo more than a billion years from now, as the Sun ages and grows brighter."

Adapted from Observer,

"Discovery of Habitable Earth-like Planet Announced", July 2015, by Robin Seemangal

1. Choose the letter that corresponds to the right answer. The text is...

- a. prescriptive b. narrative c. expository

2. Write the letter which best completes the statement.

A. Kepler 452b is the most to our planet.

- a) different b) remote c) similar

B. Kepler 452b would contain the conditions to support liquid water.

- a) unusual b) suitable c) unsuitable

C. Our Sun's cousin gives off light.

- a) more b) no c) less

D. Our star is kepler 452b host star.

- a) older than b) younger than c) as old as