

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

3. Answer the following questions according to the text.

- a. Where is Kepler 452b situated?
- b. What might be the components of Kepler 452b?
- c. How can this discovery be beneficial for scientists and humanity?

4. In which paragraph is it mentioned that life may be possible on Kepler 452b?

5. Who or what do the underlined words refer to in the text?

- a. This planet (§1)
- b. ours (§2)

B/Text Exploration

(07 pts)

1. Find in the text words or phrases that are opposite in meaning to the following:

- a. unlike (§1) ≠
- b. found (§2) ≠

2. Divide the following words into roots and affixes.

Disappearance - undergo - aging

Prefix	Root	Suffix

3. Rewrite sentence (b) so that it means the same as sentence (a).

- 1- a. NASA has confirmed the discovery of Kepler 452b.
b. The discovery of Kepler 452b
- 2- a. “Kepler 452b could be experiencing now what the Earth will undergo”, says Caldwell.
b. Caldwell says that
- 3- a. I have a strong desire to set foot on the Moon someday.
b. I wish

4. Classify the following words according to the pronunciation of their final “s”.

practices - candidates - stars - travels

/s/	/z/	/ɪz/

5. Fill in the gaps with words from the list.

astronomical - defined - satellite - moon

A satellite can be ... (1)... as any object that orbits around something else. There are ten types including ... (2)... satellites. For example, the ... (3)... orbits around Earth and is thus a natural ... (4)..., but man-made ones are called artificial objects.

Part Two: Written Expression

(05 points)

Choose ONE topic only.

Topic One.

Some people think that satellites and space exploration are a waste of time and money while others disagree. You are a member of a space association. Write a public statement of about 80 to 120 words in which you defend your point of view and try to convince people of their importance.

You may use the following notes:

- Telecommunications – exploring expeditions - gathering information about other planets
- Research – weather forecast – predicting natural disasters...

Topic Two.

Next December, you will attend an anti-corruption summit in Strasbourg organized by Transparency International.

Write a speech of about 80 to 120 words for the opening ceremony in which you suggest solutions to fight corruption in the world.

انتهى الموضوع الأول

<i>Keys to subject 1 (Kepler 452b)</i>														
15pts 08points		Part One: Reading A/ Comprehension												
1pt	1pt	1. C . expository												
2pts	0.5×4	2. A. (c) B. (b) C. (a) D. (b)												
3pts	01×3	3. a. Kepler 452b is situated in the Goldilocks zone. b. The components of the Kepler 452b might be: rocks, a thick atmosphere and a significant amount of water. (for one component: 0.5pt and for more than one component 01pt.) c. The discovery of Kepler 452b will give scientists a glimpse into how the Sun's age will eventually affect Earth. Or: It will help scientists predict what the Earth will undergo more than a billion years from now. (accept one of them).												
1pt	1pt	4. In the first paragraph. In paragraph one.												
1pt	0.5×2	5. a. Kepler 452b / the most Earth-like planet b. star / sun												
07points		B/ Text Exploration												
1pt	0.5×2	1. a. the same / like b. lost												
1.5pts	0.5×3	2.												
		<table border="1"> <thead> <tr> <th><i>Prefix</i></th> <th><i>Root</i></th> <th><i>Suffix</i></th> </tr> </thead> <tbody> <tr> <td>dis</td> <td>appear</td> <td>ance</td> </tr> <tr> <td>under</td> <td>go</td> <td>/</td> </tr> <tr> <td>/</td> <td>age</td> <td>ing</td> </tr> </tbody> </table>	<i>Prefix</i>	<i>Root</i>	<i>Suffix</i>	dis	appear	ance	under	go	/	/	age	ing
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1.5pts	0.5×3	3. b1. The discovery of Kepler 452b has been confirmed (by NASA). b2. Caldwell says that Kepler 452b could be experiencing now what the Earth will undergo. b3. I wish I could set foot on the Moon someday.												
1pt	0.25×4	4.												
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candidates	stars – travels	practices												
2pts	0.5×4	5. 1. defined 2. astronomical 3. moon 4. Satellite												
05points		Part Two: Written Expression. Topic one: form: 3 pts content: 2 pts Topic two: form: 2.5 pts content: 2.5 pts												