

2017 年度 高校入試用  
英語 R サンプル

TEXT A: The mission to Jupiter

A video has been released by NASA that shows the satellite, named Juno, 1. \_\_\_\_\_ towards the planet Jupiter. Jupiter is the fifth planet from the sun and is the 2. \_\_\_\_\_ planet in the solar system. Jupiter is approximately 320 times bigger than the Earth. Juno has taken  
5 around five years to reach Jupiter. The satellite cost \$1.1 billion and has travelled 1.7 billion miles from Earth 3. \_\_\_\_\_ Jupiter. Juno will spend 20 months circling Jupiter and its 67 moons and scientists expect to find even more moons from the expedition. NASA scientists expect to learn 4. \_\_\_\_\_ about the make-up 5. \_\_\_\_\_ Jupiter's atmosphere and how much water is inside Jupiter.

10 The reason why Juno can only circle Jupiter for 20 months is that the radiation levels on and in Jupiter's atmosphere are so 6. \_\_\_\_\_. The magnetic field that surrounds the planet is 20,000 times stronger than the magnetic field on earth. After 20 months, Juno will not be able to 7. \_\_\_\_\_ any more radiation, 8. \_\_\_\_\_ being well protected, and will plummet into Jupiter's atmosphere and be crushed by the intense pressure. The crash is intentional, as there is a  
15 small risk that tiny organisms from Earth, carried by Juno, could survive the long journey to Jupiter and contaminate one of Jupiter's moons. 9. \_\_\_\_\_, scientists have programmed the satellite to dive into Jupiter's atmosphere where it will be 10. \_\_\_\_\_ destroyed.

Choose the word that best fits the missing space in the text (one point each)

1.     A) heading                 B) headed                 C) header                 D) heeded
2.     A) large                    B) larger                 C) largest                 D) largely
3.     A) at                         B) by                       C) in                       D) to
4.     A) most                      B) many                    C) more                    D) must
5.     A) of                         B) by                       C) at                       D) from
6.     A) higher                    B) highest                 C) height                 D) high
7.     A) withstood                 B) withstand             C) withstanding           D) standing
8.     A) even                       B) but                      C) furthermore            D) despite
9.     A) therefore                 B) and                      C) besides                 D) further
10.    A) complete                 B) completely             C) completed             D) compete

Answer the below questions based on information from the text.

11. What do scientists think they will find out about Jupiter? (two points)

- \_\_\_\_\_ (one point)
- \_\_\_\_\_ (one point)

12. Which word in the first paragraph is similar in meaning to the word 'mission'? (one point)

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13. Why can Juno only orbit Jupiter for 20 months? (one point)

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14. Which word between lines 4 – 15 means the same as 'drop quickly'? (one point)

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Please choose if the statement in *italics* is true or false and write a phrase from the text to support your answer. The true/false AND the statement must be correct to the mark.

Questions 15 and 16 (one point each)

15. Is the following true or false? Please select a phrase from the text that supports your answer.

*Earth's magnetic field is weaker than that on Jupiter.* *True False*

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16. Is the following true or false? Please select a phrase from the text that supports your answer.

*There is no plan to crash the satellite into Jupiter* *True False*

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END OF SAMPLE TEST

### ANSWERS TO SAMPLE TEST

Choose the word that best fits the missing space.

1.     A) **heading**                    B) headed                    C) header                    D) heeded
2.     A) large                         B) larger                    C) **largest**                    D) largely
3.     A) at                             B) by                         C) in                         D) **to**
4.     A) most                         B) many                    C) **more**                         D) must
5.     A) **of**                             B) by                         C) at                         D) from
6.     A) higher                        B) highest                    C) height                    D) **high**
7.     A) withstood                    B) **withstand**                    C) withstanding                    D) standing
8.     A) even                         B) but                        C) furthermore                    D) **despite**
9.     A) **therefore**                    B) and                        C) besides                    D) further
10.    A) complete                        B) **completely**                    C) completed                    D) compete

Answer the below questions based on information from the text.

11. What do scientists think they will find out about Jupiter? (2 points)

ONE OF THREE ANSWERS

- Expect to find even more moons from the expedition.
- NASA scientists expect to learn more about the make-up of Jupiter's atmosphere
- How much water is inside Jupiter.

12. Which word in the first paragraph is similar in meaning to the word 'mission'?

Expedition

13. Why can Juno only orbit Jupiter for 20 months?

Radiation levels on, (and in Jupiter's atmosphere), are so high

14. Which word between lines 4 – 12 means the same as 'drop quickly'?

Plummet

15. Is the following true or false? Please select a phrase from the text that supports your answer.

*Earth's magnetic field is weaker than that on Jupiter.*

*True*

The magnetic field that surrounds the planet is 20,000 times stronger than the magnetic field on earth (or paraphrased with similar meaning)

16. Is the following true or false? Please select a phrase from the text that supports your answer.

*There is no plan to crash the satellite into Jupiter*

*False*

The crash is intentional