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A demonstration mission to test an idea to clean up space debris (残骸) launched Monday morning local time from the Baikonur Cosmodrome in Kazakhstan. Known as ELSA-d, the mission will exhibit technology that could help capture space junk, the millions of pieces of orbital debris that float above Earth.

The more than 8,000 metric tons of debris threaten the loss of services we rely on for Earth-bound life, including weather forecasting, telecommunications and GPS systems.

The spacecraft works by attempting to attach itself to dead satellites and pushing them toward Earth to burn up in the atmosphere.

ELSA-d, which stands for End-of-Life Services by Astroscale, will be carried out by a “servicer satellite” and a “client satellite” that launched together, according to Astroscale, the Japan-based company behind the mission. Using a magnetic docking technology, the servicer will release and try to “date” with the client, which will act as a model piece of space junk.

The mission, which will be run from the U.K., will carry out this catch and release process repeatedly over the course of six months. The goal is to prove the servicer satellite’s ability to track down and dock with its target in varying levels of complexity.

The spacecraft is not designed to capture dead satellites already in orbit, but rather future satellites that would be launched with compatible (兼容的) docking plates on them.

According to NASA, cleaning up space and addressing the risks associated with debris depend on preventing the accumulation of more waste and actively removing it.

The development of other cleanup technologies has been underway for years. In 2018, a device called RemoveDebris successfully cast a net around a model satellite. The European Space Agency also plans to send a self-destructing robot into orbit in 2025, which the organization’s former director general has referred to as a space “vacuum cleaner”.

These efforts could prove increasingly important as private space projects like SpaceX continue to fill low Earth orbit with a “mega-constellation” of satellites.

28. What do we know about space junk?

- A. It has a potential effect on our daily life.
- B. It has been cleaned up several times so far.
- C. It is what astronauts desert in outer space.
- D. It circles around the earth alongside satellites.

29. What does the author tell us about ELSA-d in paragraph 4?

- A. Its two new satellites.
- B. Its theoretical principle.
- C. Its achievements in space.
- D. Its space mission in orbit.

30. What’s the purpose of designing the spacecraft?

- A. Sending astronauts into space.
- B. Testing docking technology.
- C. Removing existing space junk in orbit.
- D. Capturing satellites to be launched.

31. What is the passage mainly about?

- A. ELSA-d’s experimental process.
- B. Dead satellites floating in orbit.
- C. New effort to clean up space junk.
- D. The application of docking technology.





a while. Then he smiled and told me about his 45. He didn't 46 well at school when he was a student. Although 47 thought he could succeed, he knew 48 what his dream was – to be a 49. “I knew I wasn't 50 when it came to studying, so I tried to buy snacks from a nearby market and sell them after class,” he told me. After he left school, he started selling different items to 51 which one was most attractive to customers. Of course, he often had no money in his pocket, but however 52 life was, he never gave up.

“There is no doubt that a person who puts in a great deal of 53 to reach his or her goal will have good luck at some point. The meaning of life is to 54 your dream,” he said in a gentle voice.

That night I could not fall asleep. With my eyes wide open, I lay in bed tossing and turning and I asked myself, “What's my motivation?” I wanted to be a top student, but the hard work 55 meant putting everything into following my 56. If I find myself 57 willpower, what should I do? Leaving home early the next morning, I climbed the mountain again all by myself. It made me think: If we don't 58 it to the top of a mountain, how can we enjoy the scenery there? At last, I reached the top and was 59 by the warm breeze and sunshine. Nothing could be more 60 than that.

- |                   |              |                |                  |
|-------------------|--------------|----------------|------------------|
| 41. A. Hesitant   | B. Eager     | C. Satisfied   | D. Unwilling     |
| 42. A. worried    | B. anxious   | C. scared      | D. exhausted     |
| 43. A. Therefore  | B. However   | C. Meanwhile   | D. Furthermore   |
| 44. A. left       | B. caused    | C. pushed      | D. brought       |
| 45. A. career     | B. story     | C. idea        | D. confusion     |
| 46. A. behave     | B. respond   | C. perform     | D. impress       |
| 47. A. somebody   | B. everybody | C. nobody      | D. anybody       |
| 48. A. clearly    | B. directly  | C. shortly     | D. rapidly       |
| 49. A. chef       | B. scholar   | C. deliveryman | D. businessman   |
| 50. A. skilled    | B. gifted    | C. diligent    | D. knowledgeable |
| 51. A. make sure  | B. check in  | C. figure out  | D. count on      |
| 52. A. secure     | B. tough     | C. reliable    | D. boring        |
| 53. A. talent     | B. potential | C. effort      | D. ambition      |
| 54. A. chase      | B. create    | C. change      | D. promote       |
| 55. A. directed   | B. connected | C. pulled      | D. involved      |
| 56. A. demand     | B. ability   | C. strength    | D. passion       |
| 57. A. desiring   | B. sharing   | C. lacking     | D. possessing    |
| 58. A. make       | B. reach     | C. get         | D. bring         |
| 59. A. shocked    | B. amused    | C. honored     | D. greeted       |
| 60. A. unexpected | B. pleasant  | C. relaxing    | D. challenging   |

### 第三部分 英语知识运用

#### 第二节 (共 10 小题; 每小题 1.5 分, 满分 15 分)

阅读下面短文，在空白处填入 1 个适当的单词或括号内单词的正确形式。

Gandhi, an Indian national hero, was honoured as 61 father of the Indian nation. He has been respected and beloved by the Indians. He was born in India in 1869. He 62 (get) married at the age of 13, and in 1888 he sailed to England. 63 he studied law for three years and became a lawyer. 64 (return) to India, he was sent to South Africa to work on a law case a year later. In South Africa he was surprised to find that the problem of racial discrimination was serious. There he formed an 65 (organize) and started a magazine to fight for equal rights. Gandhi returned to India in 1915, when India was under the control of the British. He led the 66 (Indian) to fight for an end to the British rule and independence for his country. In the political movement many people, Gandhi 67 (include), were put in prison. 68, the struggles never stopped. The British government had to give 69 and India won its independence in 1947. But 70 (fortunate) Gandhi was shot by an Indian who opposed his views and died on January 30th, 1948.

#### 第四部分 写作（共两节，满分 35 分）

##### 第一节 短文改错（共 10 小题；每小题 1 分，满分 10 分）

假定英语课上老师要求同桌之间交换修改作文，请你修改你同桌写的以下作文。文中共 10 处语言错误，每句中最多有两处。每处错误仅涉及一个单词的增加、删除或修改。

增加：在缺词处加一个漏字符号（^），并在其下面写出该加的词。

删除：把多余的词用斜线（\）划掉。

修改：在错的词下划一横线，并在该词下面写出修改后的词。

注意：1. 每处错误及其修改均仅限一词；

2. 只允许修改 10 处，多者（从第 11 处起）不计分。

Dear Editor,

I am high school student. Here I would like to express my sincerely gratitude through your newspaper to all the medical workers for your devotion and sacrifice in this battle against the Covid-19 virus. It is they who, despite of the lack of equipment and the potential of infection, desperately rescue those infecting and striving for life. It is also they who have shed new light on the virus to build up our confidence to defeat it. It is they who deserves all the admiration and love! I can ever express our thankfulness too much for their selfless contributions. As the virus is very hard to clear, I'm convinced that China will win the battle and make a quick recover. Finally I hoped all of them will stay healthy and happy.

Yours sincerely,

Li Hua



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