

Leia o texto com atenção e, em seguida, responda às questões que se seguem. A resposta de cada questão deve ser registrada no **Gabarito** abaixo. Respostas com rasuras **NÃO** serão consideradas. Marque apenas uma (1) alternativa para cada questão.

## TESLA-INSPIRED CHINESE EV STARTUP LAUNCHES ALL-ELECTRIC SUV USING OPEN-SOURCE PATENTS

Tesla CEO Elon Musk always said that the mission of the company is to accelerate the advent of electric transport (and later they added renewable energy). They want to achieve that by producing competitive electric cars, but also by accelerating the whole industry's transition, which is why they open-sourced their patents.

It hasn't been clear if any company actually took advantage of Tesla's patents yet, but now a new Chinese startup openly references Tesla's technology and the open-sourcing of their patents as the motivation behind the company.

Xiaopeng Motors was founded by Henry Xia back in 2014. Xia was working in research and development for the Guangzhou Automobile Group when Tesla announced that they are opening their patents and the young engineer saw an opportunity to create a startup. He enlisted the help of several other automotive engineers and also recruited from the internet and tech industries to create Xiaopeng.

Three years later, they launched the "beta version" of their first vehicle, the Xpeng, an all-electric SUV. Now we can't say exactly what Tesla patents they are using, but there's no doubt that the company was heavily inspired by the California-based automaker. In terms of core technology, the first obvious link is the battery pack architecture. While almost every new automaker since Tesla has used the same long and flat battery pack design fitted on the floor of the car between the two axles, Xiaopeng also copied the battery module design inside the pack. They are using the same 18650 battery cell format, but Xiaopeng actually uses Samsung li-ion cells unlike Tesla's custom Panasonic cells. Tesla currently uses 18650 cells for Model S and Model X packs and 2170 cells for Model 3 packs.

The Xpeng's battery enables ~300 km (186 miles) of range, according to the company. Despite the similar battery pack architecture, the Xpeng is significantly less powerful than Tesla's vehicles, but it aims at the lower end of the SUV market than Tesla's Model X. But the similarities between Tesla and Xiaopeng don't end here.

Moving to the interior. Xiaopeng put a Tesla-like center touchscreen as the main control center for the vehicle. The company plans similar autonomous and assisted driving features as Tesla's Autopilot – hence the extremely similar user interface. They recently hired Junli Gu, Tesla's former machine learning lead for Autopilot, to lead their autonomous driving effort.

Things have been going well for Xiaopeng while using this strategy of being inspired by Tesla. They recently produced the first 15 Xpeng vehicles.

Now they are raising funds to expand production at a factory in Zhengzhou. Earlier this summer, they raised 2.2 billion RMB (\$320 million USD) and they are now reportedly aiming to raise 10 billion RMB (\$1.4 billion USD) to expand their annual production capacity of 100,000 vehicles.

1. According to the text, Elon Musk is (D)
  - a. a visionary;
  - b. the owner of Tesla;
  - c. the inventor of Tesla;
  - d. the company's executive officer;
  - e. the company's president.
  
2. The mission of the company is to (B)
  - a. motivate the expansion of the company;
  - b. spur electric transport development;
  - c. accelerate the open-source industry;
  - d. stimulate automobile development in California;
  - e. impose the use of Tesla's patents.
  
3. It is true to assert that (D)
  - a. many companies are using Tesla's technology;
  - b. Xiaopeng Motors founder was a Tesla employee;
  - c. Guangzhou Automobile Group bought Tesla's technology;
  - d. a Chinese startup is referring heavily to the use of Tesla's technology;
  - e. the Xpeng was launched for Tesla Group.
  
4. In the second paragraph the conjunction *but* used in "It hasn't been clear if any company actually took advantage of Tesla's patents yet, but now a new Chinese startup openly references Tesla's technology and the open-sourcing of their patents as the motivation behind the company." implies the idea of (B)
  - a. concession;
  - b. contrast;
  - c. agreement;
  - d. obsolescence;
  - e. congruence.
  
5. The term 'open-source' means (A)
  - a. to make a patent freely available to the general public;
  - b. to open quotas for sharing a company's mission and vision;
  - c. to outsource a patent to be made in foreign lands;
  - d. to achieve the production of a new technology;
  - e. to launch a new patent.
  
6. According to the text, Henry Xia (E)
  - a. has copied every detail that Tesla has;
  - b. founded the Guangzhou Automobile Group;
  - c. worked without automotive engineers;
  - d. created the first SUV type of car;
  - e. worked in research and development.
  
7. It is asserted that (C)
  - a. the battery used by Xpeng is identical with Tesla's;
  - b. Xpeng uses a 18650 Panasonic battery pack;
  - c. Xpeng's battery lasts approximately 300km;
  - d. Xpeng battery pack overrides Tesla's';
  - e. Xpeng uses the 2170 battery cell format.

8. In the fifth paragraph, it is said that “*Despite* the similar battery pack architecture, the Xpeng is significantly less powerful than Tesla’s vehicles (...)”. The preposition *Despite* is used for: **(D)**

- a. an addition
- b. a cause;
- c. a consequence;
- d. a contrast;
- e. an agreement .

9. According to the text, Xiaopeng Motors is using a Tesla-like center touchscreen, because **(C)**

- a. they like the model very much;
- b. the interior has an Autopilot;
- c. intends to use similar driving features;
- d. Junli Gu liked to work for Tesla;
- e. it is a Model X SUV.

10. Identify the True (T) and False (F) statements based on the reasons things have been going well for Xiaopeng **(A)**

- ( ) They intend to open a factory in Zhengzhou.
- ( ) They are producing new models of vehicles.
- ( ) They are trying to find investment.
- ( ) They need 2.2 billion RMB.
- ( ) They plan to increase their capital to 10 billion RMB.

The correct sequence is

- a. F-F-T-F-T
- b. T-F-T-F-T
- c. F-T-T-F-T
- d. F-F-T-T-F
- e. T-T-F-T-T