STEP 2 級 模擬問題演習

●次の英文の内容に関して、(1)から(4)までの質問に対して 最も適切なもの、または文を完成させるのに最も適切なものを 1、2、3、4の中から一つ選びなさい。

Meteor Showers

If you look up at the night sky carefully, ou can see a few meteors each hour. Several times a year, though, the earth passes through a dust cloud left over from a comet, a d for a few hours tens, hundreds, or even thousands of meteors will pass across the sky in a meteor shower. When they enter the part of Exercise atmosphere called the thermosphere* at an extrem. ly high speed, they become very hot due to friction. The thermosphere lies between about 80 km and 120 km in altitude.

In 1833 the Leonid meteo. shower was discovered and the interest of scientists becan a focus d on the predicted return of the Leonids as the decade of the 1050's began. Nowadays, many meteor showers can be predicted, since the y come every year or so when the earth returns to the same product of in its orbit around the sun.

During a matter shower most of the meteors seem to start near the same place in the sky, called the radiant**. They are named after the constellation that the meteors appear to be coming from. For instance, the meteor shower that has its radiant in the constellation Leo is called the L onid meteor shower because the meteors appear to be showering out of the constellation Leo.

The Leonic ineteor shower occurs every year around November 16 and 17. Every 33 years, the Leonid meteor shower becomes very active because the comet Temple-Tuttle passes by and leaves more comet dust for the earth to pass through.

The only thing you need for a good viewing of the Leonid meteor shower is a dark sky. If possible, find a location with a large area of clear sky. Bright city lights make it impossible to see meteors. The best way to view these shows is to recline on the ground so you can see the whole sky without getting a stiff neck.

* thermosphere 温度圈 ** radiant 輻射点

(1) Meteors

- 1 pass through a dust cloud left over from a comet.
- 2 get very hot because of the friction with the atmosphere.
- 3 return to the same place in the earth's orbit around the sun.
- 4 can be seen in the bright city lights.
- (2) What is true about the Leonid meteor shower?
 - 1 It has its radiant in the constellation Leo.
 - 2 It was discovered in the 1860's.
 - 3 It leaves more comet dust around the sun.
 - 4 Its period is one day.
- (3) Many meteor showers can be predicted bec \mathbf{u}
 - 1 they lie between about 80 km and 120 km h alti ide.
 - 2 the interest of scientists became focused on the predicted return of the Leonids.
 - 3 they are in a dark sky.
 - 4 they repeat almost even year when the earth returns to the same place in its orbit
- (4) Which of the following st ter ents is true?
 - 1 Most of the merce r around the sun.

 - 3 The met or over which appears to come from the constellation teo is called the Leonid shower.
 - 4 Jou should ie in a place with a fine view of a city when you vate¹ in you showers.