Integrated writing task of TPO 50:

The reading provides information about some problems of huge project of sending humans to the Mars however, scientists did not have to face when they wanted to send humans to the mars. The lecturer, however, finds the idea dubious and casts doubt on the reasons proposed by the reading passage.

First of all, the author suggests that round-trip to the Mars and then go back takes two years so, the limit storage space of food, water and oxygen is a major problem. Conversely, the lecturer brings up the idea there a technique that named hydroponics for growing plants in water instead of soil. In order to produce food and recycle the water. Moreover, by absorbing carbon dioxide and release oxygen by plants astronauts have fresh air to breath.

Secondly, the writer contends that another problem with zero gravity on the Mars. Spending a long time in this environment has negative effect on their body, such as decreased muscle mass and lower bone density. On the contrary, the professor underlines the fact that there are several space stations on the earth that astronauts can spend time in there as a practice. Moreover, there are several technique to manage the effect of this problem by used calcium and deferent vitamins or do regular exercise.

Finally, it is stated in the article that astronauts would be exposed to dangerous radiation by the Sun on the Mars. Not only is there no magnetic field for protecting dangerous solar radiation, but also we could not develop a shield that would protect astronauts because it would add too much weight to the ship. In contrast, the speaker dismisses this issue solar radiation is not all the time and occasionally dangerous. Furthermore, astronauts can go to the special shield in a dangerous situation and stay there during event and after that go back.

Time: 30 minutes ☹

Words count: 306