The reading asserts that in order to making manned mission to Mars possible, the project require solving a lot of new problems. The lecturer, however, finds the idea dubious and casts doubt on the reasons proposed by the reading passage.

The author argues that carrying two years supplies to mars is nearly impossible. Conversely, the lecturer brings up the idea that astronauts can use hydroponic technique to manage their supplies shortage problem. They cultivate food crops roots in water by this technique, so they don’t need soil, also it don’t take too much space. Moreover hydroponic recycle waste water to clean water and astronauts always access to drinking water. Hence plants absorb carbon dioxide and release oxygen so they have fresh air.

Furthermore, the reading passage holds the view that if astronauts stay in zero-gravity environment for too long; they will face serious health problems in future. On the contrary, the professor underlines the fact that astronauts experience long mission in space station in zero-gravity environment and they learn some techniques to keep themselves healthy. They do regular exercise to prevent muscle mass decreasing; also they use mineral and vitamins like calcium to slow down decrease in bone density.

Finally, the reading asserts that astronauts would be exposed to dangerous solar radiation on a mission to Mars. In contrast, the speaker dismisses this issue due to the fact that solar radiation is not in dangerous level all the time and the spaceship has a small shield instrument which Is not heavy, therefore astronauts use the shelter as shield in these occasions and in normal times they are in unshielded area.

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Time: 32 minutes