

4. A 5. C

Ex. 4 p. 91

- 1. It was set up to pilot a low-energy food production system in a coastal desert region using only seawater, sunshine and nutrients from the sea.
- 2. The only criteria they didn't fulfill was using only the nutrients extracted from the seawater.

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Criteria:

- 1. The system had to be simple.
- 2. The system needed to use minimal power.
- 3. The system had to rely on seawater and sunshine as input or raw materials for the soil.
- 4. The system needed to be low-cost.

Evaluation:

- 1. They were able to design a process that perfectly imitates the water cycle.
- 2. They demonstrated that the system was capable of operating with very little power form outside sources.
- 3. They didn't need to use any fresh water from outside the system on the crops, but it turned out to be impossible to use only nutrients extracted from the seawater.
 - 4. They showed they were able to build a glasshouse within per square meter target of 35 Euros.

Overall:

The only criteria they didn't fulfill was using only the nutrients extracted from the seawater.

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- 2. Minimal power had to be used by the system.
- 3. We didn't need to rely on electricity from the grid.
- 4. We shoudn't have used nutrients bought from outside.
- 5. We were obligated to use a generator for the pumps and the fans.
- 6. There was no need to use any fresh water from outside the system.

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A:

- 1. located
- 2. removes
- 3. using

B:

- 4. commencing
- 5. is pumped
- 6. are removed

C:

- 7. been cleaned
- 8. is pumped
- 9. containing

D:

- 10. containing
- 11. acts
- 12. allowing

E:

- 13. been blocked
- 14.containing
 15. is forced
 16. flowing

F:

- 17. passed 18. called
- 19. undergoes 20. flowing