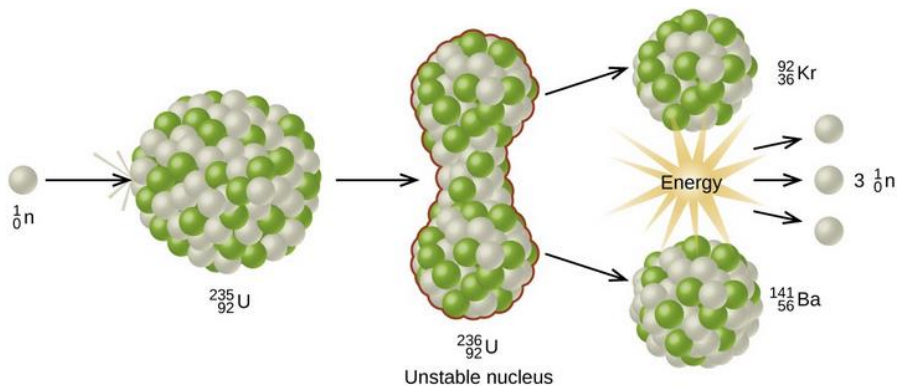


1) Read the description of the process below. Observe the language used in the text.

### The Nuclear Fission

To produce energy by means of a nuclear fission reactor, the first step is that a fast fission neutron travelling at about 42,000 Km/s is slowed down (moderated) to about 1.5 km/s when it is passed through a moderator such as 'heavy water' (D<sub>2</sub>O). Next, the nucleus of a heavy atom such as uranium-235 is split apart by this slow-moving neutron. Splitting is accompanied by a tremendous release of energy in the form of heat, and by the release of two or three fast neutrons. These new neutrons are also slowed down by passage through the moderator. They are then used to split other U-235 atoms, which in turn release more energy and more neutrons. The result is a self-sustaining nuclear chain reaction that continually releases enormous amounts of energy

Fig. 1



2) Now write your own text. Describe how a common IT technology of your choice works. (Examples: description of how the internet protocol works, how a firewall works, etc.)

Alternatively, you can describe how seawater greenhouse technology works (see Fig. 2 below).

**You should write between 80-100 words. Please DO NOT USE any AI tools (ChatGPT, translators...). Bring your writing on a separate page.**

Figure 2

