**Smoke Alarm**

The alarm is set off when smoke enters its plastic case.

Put the sentences **A**–**E** below in the correct order to **explain** why smoke sets the alarm off.

**A Detector signal falls.**

**B Smoke absorbs the radiation from the radioactive source.**

**C Radiation from the radioactive source reaches the detector.**

**D The drop in the detector signal activates the alarm circuit.**

**E A small green light flashes to show correct working.**

**……………………………………………………………………………**

**The Smoke Detector**

**(Solution)**

**C Radiation from the radioactive source reaches the detector.**

**E A small green light flashes to show correct working.**

**B Smoke absorbs the radiation from the radioactive source.**

**A Detector signal falls.**

**D The drop in the detector signal activates the alarm circuit.**