

Question 13 (Answer: **A**)

- A source releases sucrose into the phloem; a sink takes it out.
- The leaves are photosynthesising, so they are the source.
- The flowers and fruits are growing and storing, so they are sinks.

Question 13 (Answer: **C**)

- Translocation is the transport of dissolved food in the phloem.
- The substances carried are sucrose and amino acids.
- It runs from source to sink, and starch is insoluble so it is never transported.

Question 14 (Answer: **D**)

- Roots store food, so they act as sinks – statement 2 is right.
- Palisade mesophyll cells photosynthesise, so they are sources, not only sinks.
- Phloem carries *sucrose*, not glucose, so statement 3 is wrong too.

Question 14 (Answer: **C**)

- A source releases sucrose into the phloem; a sink takes it out and uses or stores it.
- In spring the underground bulb is releasing its stored food, so it is the source.
- The growing leaves and flowers are using that food, so they are the sinks.

Question 14 (Answer: **A**)

- Amino acids are absorbed into the blood, so arteries carry them round the body.
- In a plant, amino acids are carried in the phloem along with sucrose.
- Xylem carries only water and mineral ions, so it is not involved.