

| Question Number | Answer   | Additional guidance  | Mark       |
|-----------------|--|--|------------|
| <b>3(b)(ii)</b> | <p>An answer that makes reference to four of the following:</p> <p>Similarities:</p> <ul style="list-style-type: none"> <li>• both (fibres) contain cellulose (in the cell wall) (1)</li> <li>• both have tubular structures (1)</li> <li>• both do not contain a nucleus (1)</li> </ul> <p>Differences (max 3):</p> <ul style="list-style-type: none"> <li>• phloem (sieve tubes) have {sieve plates / (perforated) end walls} whereas xylem (vessels) have no {end walls / sieve plates} (1)</li> <li>• phloem (sieve tubes) {contain cytoplasm / are not hollow} whereas xylem (vessels) {do not contain cytoplasm / are hollow} (1)</li> <li>• phloem (sieve tubes) contain no {lignin / secondary thickening} whereas xylem contain {lignin / secondary thickening} (1)</li> <li>• phloem have plasmodesmata whereas xylem have pits (1)</li> </ul> | <p>ACCEPT piecing together from adjacent sentences</p> <p>ACCEPT both have a cell wall</p> <p>ignore organelles</p> <p>ACCEPT phloem (sieve tubes) contain living cells whereas xylem (vessels) contain dead cells</p> <p>ACCEPT phloem cell walls are thinner than xylem cell walls / converse</p> <p>ACCEPT xylem have pits whereas phloem do not / phloem have plasmodesmata whereas xylem do not</p> | <b>(4)</b> |