

Question Number	Answer	Additional guidance	Mark
<b>4(a)</b>	<p>A calculation showing the following steps:</p> <ul style="list-style-type: none"> <li>• mass of bran calculated (1)</li> <li>• mass of fibre calculated (1)</li> <li>• correct answer to two significant figures (1)</li> </ul>	<p><u>Example of calculation</u></p> <p><math>(48 \div 100) \times 14 = 6.72 \text{ (mg)}</math></p> <p><math>(6.72 \div 100) \times 43 = 2.889 \text{ (mg)}</math></p> <p>2.9 mg</p> <p>Correct answer with no working scores full marks</p>	<b>(3)</b>

Question Number	Answer	Additional guidance	Mark
<b>4(b)</b>	<p>An explanation that includes the following points:</p> <ul style="list-style-type: none"> <li>• more sustainable (than oil-based plastic) (1)</li> <li>• biodegradable / can be broken down by decomposers (1)</li> <li>• carbon neutral (1)</li> </ul>	<p>ACCEPT ORA for oil-based plastic</p> <p>ACCEPT renewable / can be regrown / available for future generations</p> <p>ALLOW can decompose</p> <p>ACCEPT {does not contribute to /reduces} {greenhouse effect / global warming}</p>	<b>(3)</b>

Question Number	Answer	Additional guidance	Mark
<b>4(c)</b>	<p>An explanation that includes three of the following points:</p> <ul style="list-style-type: none"> <li>• pollen tube transports {generative nucleus/male nuclei} to {embryo sac / ovary / micropyle} (1)</li> <li>• (by releasing) digestive enzymes (1)</li> <li>• one of the male nuclei {fertilises / fuses with} the (two) polar nuclei (1)</li> <li>• (causing) the formation of a {<u>3n/ triploid</u>} endosperm (nucleus) (1)</li> </ul>	<p>ACCEPT pollen tube transports {generative nucleus/male nuclei} down the style</p> <p>ACCEPT male gamete / sperm nucleus</p> <p>ACCEPT male gamete / {sperm / haploid} nucleus</p>	<b>(3)</b>