

Question Number	Answer	Additional Guidance	Mark																								
1(a)	<table border="1"> <thead> <tr> <th></th> <th>Fibrous</th> <th>G</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>insoluble / large</td> <td>Soluble / small</td> </tr> <tr> <td>2.</td> <td>hydrophobic on outside</td> <td>hydrophilic on outside</td> </tr> <tr> <td>3.</td> <td>mainly secondary structure</td> <td>3D /folded / compact shape / tertiary / eq</td> </tr> <tr> <td>4.</td> <td>repeated amino acid sequences</td> <td>little repetition</td> </tr> <tr> <td>5.</td> <td>structural / eq</td> <td>enzymes / hormones / eq</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Fibrous	G	1.	insoluble / large	Soluble / small	2.	hydrophobic on outside	hydrophilic on outside	3.	mainly secondary structure	3D /folded / compact shape / tertiary / eq	4.	repeated amino acid sequences	little repetition	5.	structural / eq	enzymes / hormones / eq							<p>Do not piece together</p> <p>3 ACCEPT chains / straight proteins IGNORE quaternary</p>	(3)
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*1(b)	<p>(QWC – Spelling of technical terms must be correct and the answer must be organised in a logical sequence)</p> <ol style="list-style-type: none"> reference to { <i>post-transcriptional modification / splicing</i> } (of mRNA) ; reference to <i>spliceosomes</i> ; reference to {removal / eq} of <i>introns</i> ; idea that different {number / length} of <i>exons</i> are put together (in the different sexes) ; idea that the length of the <i>mRNA molecules</i> will be different (for males and females) ; idea that the longer mRNA will have more <i>codons</i> ; and therefore more <i>amino acids</i> will be coded for ; reference to (during) <i>translation</i> ; idea of removal of some amino acids post-translation ; 	<p>QWC emphasis is on correct spelling of biological terms</p> <p>1 ACCEPT post-transcriptional changes</p> <p>7 ACCEPT converse</p> <p>8 in the context of Mp7 ACCEPT converse</p>	(6)