Question		Answer	Marks	Guidance
22	(a)		3	ACCEPT ORA for glucose for mps 1, 2 3 & 4 only
		glycogen is		
		1 insoluble , so has no effect on , water potential / Ψ (of cell) ✓		1 ACCEPT insoluble so has no osmotic effect (on cell)
		2 <u>metabol</u> ically inactive ✓		
		3 compact / lots can be stored in a small space ✓		
		<b>4</b> able to store , large amounts / lots , of <u>energy</u> ✓		
		<ul> <li>5 (highly branched so) has lots of ends for , adding / removing , glucose (when needed)</li> <li>or</li> <li>can be broken down , fast / quickly / rapidly , to release glucose ✓</li> </ul>		5 IGNORE ref to surface area
				Note: 'compact so can store large amounts of energy' = 2 marks (mps 3 & 4)

Question		on	Answer	Marks	Guidance
22	? (b)			3 max	<b>NOTE</b> answers must be the in context of <b>protein</b> transport. Penalise once if a different material (e.g. gene) is transported to max 2
			1 <u>transport</u> vesicle from RER ✓		
			2 modification / processing / folding ✓		ACCEPT example of modification
			3 in / at , Golgi (body / apparatus) ✓		3 IGNORE SER / smooth endoplasmic reticulum
			4 (packaged into) secretory vesicle ✓		
			5 vesicles move along the cytoskeleton ✓		5 ACCEPT use of motor proteins / chaperones / microtubules
			<b>6</b> (vesicle) fuses with , cell <u>surface</u> / plasma , membrane ✓		6 ACCEPT merges with DO NOT ACCEPT binds / attaches / dissolves
			7 (secretion occurs by) <u>exocytosis</u> ✓		7 DO NOT ACCEPT exocytosis in context of excretion (rather than secretion) DO NOT ACCEPT vesicle being released by exocytosis