Question Number	Answer	Mark
1(a)(i)	***The only correct answer is B which is two*** ***A*** *is not correct because it contains just C, H, O* ***C*** *is not correct because it contains just C, H, O* ***D*** *is not correct because it also contains N*	**(1)**

Question Number	Answer	Additional Guidance	Mark
1(a)(ii)	would contain double bonds between the carbons (in a fatty acid chain) / C=C	ALLOW kink(s) in {fatty acid / hydrocarbon }chain	**(1)**

Question Number	Answer	Mark
1(a)(iii)	***The only correct answer is D which is an amino acid*** ***A*** *is not correct because it is not an amino acid so not transported by tRNA* ***B*** *is not correct because it is not an amino acid so not transported by tRNA* ***C*** *is not correct because it is not an amino acid so not transported by tRNA*	**(1)**

Question Number	Answer	Mark
1(a)(iv)	***The only correct answer is D which is an amino acid*** ***A*** *is not correct because it is not an amino acid so not joined together by peptide bonds* ***B*** *is not correct because it is not an amino acid so not joined together by peptide bonds* ***C*** *is not correct because it is not an amino acid so not joined together by peptide bonds*	**(1)**

Question Number	Answer	Mark
1(a)(v)	***The only correct answer is A which is glucose*** ***B*** *is not correct because it is not a glucose molecule so not a component of maltose* ***C*** *is not correct because it is not a glucose molecule so not a component of maltose* ***D*** *is not correct because it is not a glucose molecule so not a component of maltose*	**(1)**

Question Number	Answer	Additional Guidance	Mark
1(b)	An answer that makes reference to three of the following: <u>Similarities</u> • both move molecules through the {phospholipid bilayer / cell surface membrane} (1) • (in both) molecules can move through proteins (1) <u>Differences</u> • diffusion occurs down a concentration gradient whereas active transport occurs against a concentration gradient (1) • diffusion is {passive / does not require ATP} whereas active transport requires ATP (1)	ALLOW { partially / semi permeable } membrane ALLOW diffusion from high to low concentration and active transport from low to high concentration ALLOW energy for ATP	**(3)**