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CHE 102 - Homework - Ch 28cd Metabolic Pathways Score: _____/40

Name	e: _	Date:
[5 pt]	1.	Define the term "biological pathway" and give an example of one. Include a properly labeled (parent, daughter, enzymes) sketch in your answer. Explain why your example fits the definition of a biological pathway.
[4 pt]	2.	Why are cholesterol and arachidonic acid important compounds. What is similar about cholesterol and arachidonic acid? (Use complete sentences.)
[4 pt]	3.	What is atherosclerosis. In general, how does it occur and what are its symptoms? (Use complete sentences.)
[4 pt]	4.	Briefly discuss why Statin drugs are so effective at reducing cholesterol levels. (Use complete sentences.)

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[6 pt]	5.	Generically sketch a portion of a micelles that forms from palmitic acid. Identify which part is hydrophobic and hydrophilic.
[4 pt]	6.	How are micelles and liposomes alike? How are they different? (Use complete sentences.)
[5 pt]	7.	Draw a dehydration reaction showing the formation of a phospholipid. You may choose whatever components you want. Do not use the example given in class or the book.
[4 pt]	8.	Draw the reaction between (a) unsaturated FA and Br_2 and (b) a saturated FA and Br_2 . You may choose whatever FA's you want. Do not use the example given in class or the book. (a) (b)
[4 pt]	9.	Draw an example of (a) Hydrogenation of a FA and (b) Dehydrogenation of a FA. You may choose whatever FA's you want. Do not use the example given in class or the book. (a)
		(b)