Quiz I, Biochem 1 Name:

Please write your name on the other side of this page.

1) Sketch the Central Dogma of Molecular Biology.

2) What are three basic steps common to replication, transcription and translation.

3) A bacterial mRNA contains the sequence 5’…**AUGUUUGGG****(NNN)40CCAUGA** ‘3 (**start**, **stop**). How many amino acids does it encode (assume **(NNN)40** does not contain an in-frame stop codon)?

4) A bacterial mRNA contains the sequence 5’…**AUGUUUGGG(NN)30CCAUGA** ‘3 (**start**, **stop**). How many amino acids does it encode (assume **(NN)20** does not contain an in-frame stop codon)?

Chem 4511/6501a March 30, 2023, Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please write your name on the other side of this page.

Draw phosphatidylserine. Indicate the lipophilic tails as zigzag lines.

Chem 4511/6501a April 13, 2023, Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please write your name on the other side of this page.

Draw sphingomyelin. Indicate the lipophilic tails as zigzag lines.