Quiz I, Biochem 1 Name:

Please write your name on both sides of this page.

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

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

3) Meselson and Stahl showed that DNA replication is

*conservative*

semiconservative

*dispersive*

circle one

4) DNA replication in a PCR reaction does not require:

a template

primers

four 5’ dNTPs

magnesium

topoisomerase

DNA polymerase

circle one