

Name Kery

test # _____

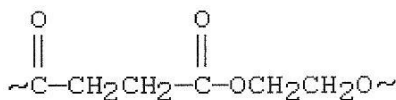
On the short Answer portion of the test, please show work on all questions for partial and full credit. On the multiple choice questions, there are NO partial credit.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) The segment of a polymer shown below represents a

25 pts on quiz

1) C



(5 EC pts) - but quite

are ~~at~~ 20 pts supposed to be

A) polyamide.

B) polystyrene.

C) polyester.

D) polyethylene.

2) Which of the following statements about addition and condensation polymers is true?

2) B

A) Both addition polymers and condensation polymers lose some atoms from the original monomers when the polymer is formed.

B) Addition polymers contain all of the atoms of the original monomers, but condensation polymers do not.

C) Condensation polymers contain all of the atoms of the original monomers, but addition polymers do not.

D) Both addition polymers and condensation polymers contain all of the atoms of the monomers.

3) The substance with the formula shown below is a(n)

3) D



A) alcohol.

B) saponin.

C) detergent.

D) fatty acid.

4) Bathtub ring is caused by

4) C

A) rust formation from sulfur in the water.

B) soap and water cause a ringing sound in the ears.

C) precipitation of soap by "hard" metal ions.

D) the action of ammonia with water.

5) Which of the following statements about soaps and detergents is NOT true?

5) D

A) The hydrophilic end is ionic.

B) The hydrophobic end has the hydrocarbon chain.

C) Soaps form micelles in solution.

D) The hydrophilic end has the hydrocarbon chain.

6) The major advantage of LAS detergents over ABS detergents is that they

6) C

A) are effective in hard water.

B) lack phosphates.

C) are biodegradable.

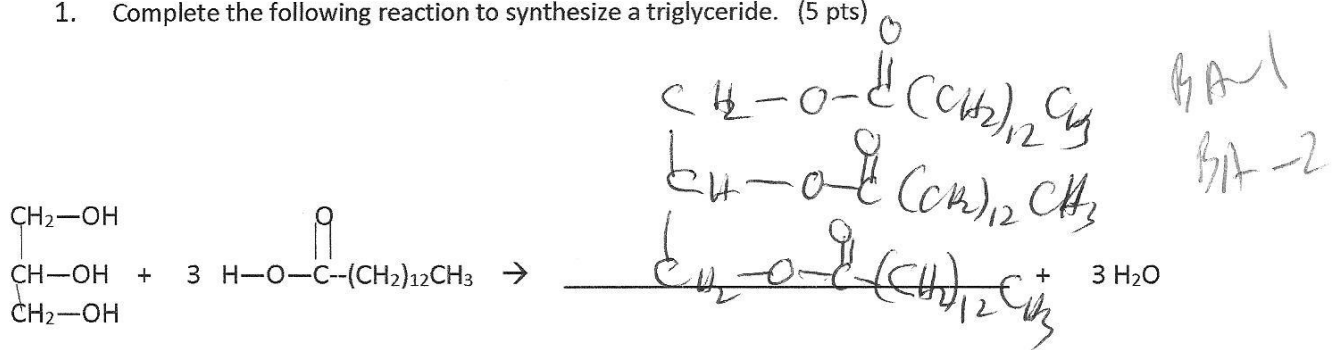
D) are soil based.

Print Name Key

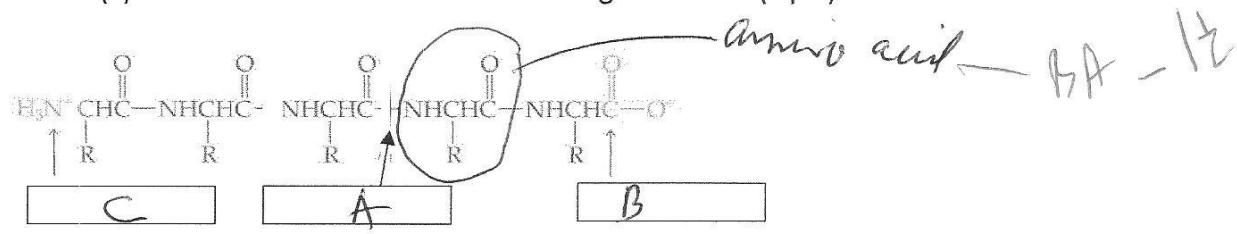
Quiz 4 3/5/21 Citadel

Please show work for all questions for partial and full credit. (20 pts) Dr. Hahn Intro Chemistry II Lecture

1. Complete the following reaction to synthesize a triglyceride. (5 pts)



2. (a) Circle ONE amino acid in the following molecule. (3 pts)



(b) fill in the blank with a letter (A) peptide bond (B) C terminal end (C) N terminal end (6 pts)

3. Chloroplasts in plants convert (3 pts)

- (A) Light energy into heat energy
- (B) light energy into electrical energy
- (C) light energy into chemical energy
- (D) heat energy into chemical energy

4. Iodine number is a measure of (3 pts)

- (A) the degree of unsaturation of a fat
- (B) Number of iodine atoms in a protein
- (C) the number of iodine atoms in a fat
- (D) number of iodine atoms in a carbohydrate

Extra Credit: (4 pts) Match the following type of linkage in proteins with the shown. (A) dispersion force (B) ionic bonds (salt bridge) (C) hydrogen bonding (D) disulfide linkage

