

## Exam #3

Organic Chemistry I (CHEM 3305) Section 101  
Summer I 2020

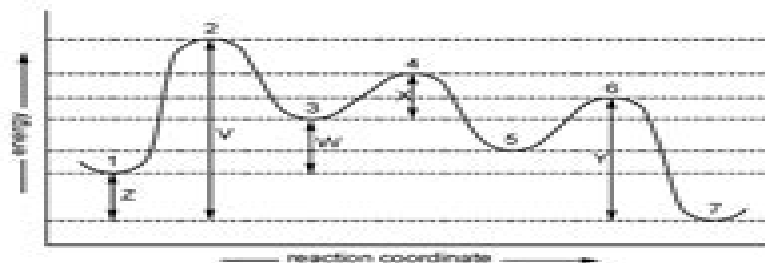
Name

Answer Key

(106 points total)

Please select the best answer for each of the following questions. A homolytic bond dissociation energies table and a periodic table are attached for your reference.

Consider the reaction coordinate diagram, at right, in questions 1-8, below.



1. (2 pts) How many steps are in a reaction that corresponds to the above reaction coordinate diagram?

A) one

B) two

☒ C) three

D) four

2. (2 pts) How many intermediates are depicted in the above reaction coordinate diagram?

☒ A) two

B) three

C) four

D) five

3. (2 pts) What is structure 7 considered in the above reaction coordinate diagram?

A) starting material

B) intermediate

C) transition state

☒ D) product

4. (3 pts) According to the above reaction coordinate diagram, which step is the rate-determining step (RDS)?

☒ A) 1<sup>st</sup> stepB) 2<sup>nd</sup> stepC) 3<sup>rd</sup> stepD) 4<sup>th</sup> step

5. (2 pts) What is the best description for the enthalpy change ( $\Delta H^\circ$ ) for an overall reaction pertaining to the above reaction coordinate diagram, that is, for the forward reaction (i.e., left to right)?

A) endothermic

☒ B) exothermic

6. (2 pts) Which energy difference corresponds to the overall enthalpy change ( $\Delta H^\circ$ ) for a reaction pertaining to the above reaction coordinate diagram?

A) V

B) X

C) Y

☒ D) Z

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**N Colangelo**



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