

# TABLE OF CONTENTS

<b>AMINO ACIDS</b> .....	<b>3</b>
Amino Acid Structure .....	3
Lab Activity 1 - Structure of Amino Acids, Molecular Model Kit .....	6
Learning Outcomes Review Questions .....	7
Practice Test 1 - Introduction to Amino Acids, Peptides and Proteins .....	7
<b>AMINO ACID METABOLISM</b> .....	<b>8</b>
<b>UTILIZATION OF AMINO ACIDS</b> .....	<b>9</b>
Protein Synthesis .....	9
Synthesis of Non-Protein Compounds .....	9
Amino acids as a Source of Energy .....	9
Dehydrations Synthesis and Hydrolysis .....	9
Lab Activity 2 - Dehydration Synthesis, Molecular Model Kit .....	10
Dehydration Synthesis and Molecular Models .....	10
Hydrolysis .....	11
Hydrolysis and Molecular Models .....	11
Lab Activity 3 - Hydrolysis, Molecular Model Kit .....	12
Learning Outcomes Review Questions .....	13
Practice Test 2 - Introduction to Amino Acid Metabolism .....	14
<b>PROTEIN STRUCTURE</b> .....	<b>15</b>
Primary level of protein organization .....	15
Secondary level of protein organization .....	15
Tertiary level of protein organization .....	16
Quaternary level of protein organization .....	17
<b>PROTEIN DENATURATION</b> .....	<b>19</b>
Learning Outcomes Review Questions .....	20
Practice Test 3- Introduction to Protein Structure .....	23
Practice Test 4 - Terminology Review .....	23
<b>COPYRIGHT AND PRODUCT DETAILS</b> .....	<b>24</b>