

# TABLE OF CONTENTS

## HEARING AND BALANCE

<b>STRUCTURE OF THE EAR</b> .....	<b>4</b>
Lab Activity 1 - Observation of Ear Model .....	4
Learning Outcomes Review Questions .....	6
Practice Test 1 - GENERAL STRUCTURE OF THE EAR .....	6
<b>OUTER EAR</b> .....	<b>7</b>
Tympanic membrane (eardrum) .....	7
<b>MIDDLE EAR</b> .....	<b>7</b>
Ossicles .....	7
Lab Activity 2 - Observation of Ossicles .....	8
Learning Outcomes Review Questions .....	8
Practice Test 2 - OUTER EAR, MIDDLE EAR, AND OSSICLES .....	9
Practice Test 3 - TERMINOLOGY - OUTER EAR .....	9
<b>Practice Test 4</b> TERMINOLOGY - MIDDLE EAR .....	9
<b>INNER EAR</b> .....	<b>10</b>
Learning Outcomes Review Questions .....	12
INNER EAR .....	12
<b>COCHLEA</b> .....	<b>13</b>
Learning Outcomes Review Questions .....	14
Practice Test 6 - COCHLEA - INTRODUCTION .....	14
<b>VESTIBULE</b> .....	<b>15</b>
Learning Outcomes Review Questions .....	16
Practice Test 7 - VESTIBULE .....	16
<b>SEMICIRCULAR CANALS</b> .....	<b>17</b>
Learning Outcomes Review Questions .....	18
Practice Test 8 - SEMICIRCULAR CANALS .....	18
<b>COCHLEA</b> .....	<b>19</b>
Lab Activity 3 - Observation of Cochlea, Slide Preparation .....	19
Practice Test 9 - COCHLEA - HISTOLOGY AND FUNCTIONS .....	25
Practice Test 10 - TERMINOLOGY = INNER EAR .....	25
<b>MECHANISM OF HEARING</b> .....	<b>26</b>
Sound .....	26
Frequency .....	26
Amplitude .....	26
Learning Outcomes Review Questions .....	28
Practice Test 11 - Sound and MECHANISM OF HEARING .....	28
<b>PATHWAYS OF SOUND CONDUCTION</b> .....	<b>29</b>
Sound Conduction to the Cochlea .....	29
Learning Outcomes Review Questions .....	30
<b>COCHLEAR NERVE AND NEURAL CONDUCTION TO THE BRAIN</b> .....	<b>31</b>
Learning Outcomes Review Questions .....	32
Practice Test 12 - PATHWAY OF SOUND CONDUCTION AND NEURAL CONDUCTION TO BRAIN .....	32
<b>HEARING TESTS</b> .....	<b>33</b>
Conduction deafness .....	33
Sensorineural deafness .....	33
Weber's and Rinne's tests .....	33
Lab Activity 4 - Weber's Test .....	33
Lab Activity 5 - Rinne's Test .....	33
Learning Outcomes Review Questions .....	34
Practice Test 13 - HEARING TESTS .....	34

<b>EQUILIBRIUM</b>	<b>35</b>
Vestibule	35
Maculae	35
Semicircular canals	37
Lab Activity 6 - Crista ampullaris, Slide Preparation	38
Learning Outcomes Review Questions	40
Practice Test 14 - EQUILIBRIUM	44
Practice Test 15 - TERMINOLOGY - VESTIBULE AND SEMICIRCULAR CANALS	44
<b>VESTIBULAR NERVE AND PATHWAY TO THE BRAIN</b>	<b>45</b>
Practice Test 16 - VESTIBULAR NERVE AND PATHWAY TO THE BRAIN	45
<b>COPYRIGHT AND PRODUCT DETAILS</b>	<b>46</b>