

BY116 Human Physiology Unit 3 **Exam Check List**

What to expect for the Unit 3 Exam:

65-70 total test questions for 140 points

Level I Facts – 35-40% of questions (20-25 questions)

Level II Principles and Meaningful Concepts – 40-45% of questions (25-30 questions)

Level III Decisions and Problem Solving – 20-25% of questions (15-20 questions)

Unit 3 Theme – Muscle physiology

Unit 3 Topics: Skeletal muscle control of body movement, Cardiac and vascular muscle control of blood movement and forms of capillary exchange, & Ventilation mechanics for air movement.

Important topics to have Mastered understanding with

Skeletal muscle control of body movement (Ch. 12-13)

Know ALL factual vocabulary on structural names, physiological processes, and physiological measurements pertaining to skeletal muscles

Know the type and influence of sensory afferent information necessary for somatic motor behavior

On paper

Know all the physiological purposes muscles give to the body's well being

How do spindle fibers and golgi tendon organs influence alpha-motor neurons and muscle function

Know the teleological and mechanistic knowledge explaining a somatic motor reflex.

Detail how and where a CNS motor plan is developed

Know how process of muscle excitation beginning from the CNS and ending with tropomyosin displacement

Know the steps of crossbridge cycling and specifically when the power stroke occurs

Know the structural organization of skeletal muscle, place emphasis on the sarcomere

Know the characteristics of the muscle fiber types and which activities they are best suited for

Explain all concepts that will influence how muscle force is adjusted or effected.

Explain energy used in working muscles and the timely transitions among biofuels for ATP

Know the difference between isotonic and isometric contractions

Know the types of musculoskeletal lever systems and which give a force advantage to the muscle or not

Know the concept of fatigue and the theories related to how fatigue occurs

Know the difference in how tetanus is achieved with muscle fiber types.

Know the kinds of adaptive benefits of training skeletal muscles

Know how to calculate the muscle work and load work so as to determine if the muscle is at an advantage or not

Cardiac muscle control of blood movement (Ch. 14)

Know ALL factual vocabulary on structural names, physiological processes, and physiological measurements pertaining to cardiac muscle

Know the type and influence of sensory afferent information for adjusting cardiac output

Know the cardiac cycle order and relate each rhythmic event to the ECG tracing observed

Cycle= filling (diastole) + Empty (systole)

Atria Sytole → Ventricular systole → early ventricular diastole, late ventricular diastole

P- wave: atria systole, SA depolarizing

QRS segment- Ventricular systole

Whole heart Diastole- between T wave and the beginning of the next p wave. Passive blood filling

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**E. Joe Middlebrooks, Donna H.
Falkenborg, Thomas E. Maloney**

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PRWG ,1973 **Limited Scientific and Technical Aerospace Reports** ,1976 Index Veterinarius ,1981
Modeling the Eutrophication Process E. Joe Middlebrooks, Donna H. Falkenborg, Thomas E. Maloney, 1973 The Ohio
Journal of Science ,1982 Includes book reviews and abstracts **Nutrition Abstracts and Reviews** ,2002 The
Education Index ,1932 *Government Reports Index* ,1973 Individual Study of Medical Physiology Pamela
Holton, B.L.A.T. Centre for Health and Medical Education, 1979* **RES Anatomy and Physiology** Responsive Education
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Table of Contents Studyblue Physiology Unit 3 Exam

1. Understanding the eBook Studyblue Physiology Unit 3 Exam
 - The Rise of Digital Reading Studyblue Physiology Unit 3 Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Studyblue Physiology Unit 3 Exam
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Studyblue Physiology Unit 3 Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Studyblue Physiology Unit 3 Exam
 - Personalized Recommendations
 - Studyblue Physiology Unit 3 Exam User Reviews and Ratings

- Studyblue Physiology Unit 3 Exam and Bestseller Lists
- 5. Accessing Studyblue Physiology Unit 3 Exam Free and Paid eBooks
 - Studyblue Physiology Unit 3 Exam Public Domain eBooks
 - Studyblue Physiology Unit 3 Exam eBook Subscription Services
 - Studyblue Physiology Unit 3 Exam Budget-Friendly Options
- 6. Navigating Studyblue Physiology Unit 3 Exam eBook Formats
 - ePub, PDF, MOBI, and More
 - Studyblue Physiology Unit 3 Exam Compatibility with Devices
 - Studyblue Physiology Unit 3 Exam Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Studyblue Physiology Unit 3 Exam
 - Highlighting and Note-Taking Studyblue Physiology Unit 3 Exam
 - Interactive Elements Studyblue Physiology Unit 3 Exam
- 8. Staying Engaged with Studyblue Physiology Unit 3 Exam
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Studyblue Physiology Unit 3 Exam
- 9. Balancing eBooks and Physical Books Studyblue Physiology Unit 3 Exam
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Studyblue Physiology Unit 3 Exam
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Studyblue Physiology Unit 3 Exam
 - Setting Reading Goals Studyblue Physiology Unit 3 Exam
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Studyblue Physiology Unit 3 Exam
 - Fact-Checking eBook Content of Studyblue Physiology Unit 3 Exam
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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