

## BY116 Human Physiology Unit 3 Exam Check List

What to expect for the Unit 3 Exams:

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 Systole → 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

# Studyblue Physiology Unit 3 Exam

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

**Studyblue Physiology Unit 3 Exam:**

PRWG ,1973    **Limited Scientific and Technical Aerospace Reports** ,1976    Index Veterinarius ,1981

*Modeling the Eutrophication Process* E. Joe Middlebrooks, Donna H. Falkenberg, 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 Solutions, 2018-08 Anatomy and Physiology Unit 3

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