

Exercise Physiology

Section 3: Substrate Delivery and Waste Removal

Section 3 will cover Chapters 9, 10, 11 & 12. Exam questions will all come directly from the lecture notes, / Powerpoint slides.

Topic Outline

Myocardial Excitation and Contraction

1. Heart muscle structure
2. Electrical coupling
 - Action potential
 - Conduction
 - Calcium
3. Activation spread
 - SA and AV nodes
 - Atrial / ventricular contraction "wave"
 - ECG
4. Cardiac cycle
 - Atrial and ventricular contraction
 - Pressure changes / values
 - Flow

Flow and Pressure

1. Structure
 - Arteries
 - Capillaries, venules
 - Veins
2. Arteries
 - Smooth muscle
 - Arterioles
 - Pre-capillary sphincters
3. Capillaries
 - Continuous
 - Fenestrated
4. Veins
 - Valves
 - Muscular walls
5. Pressure changes - Cardiac cycle
 - Atrial / pressure
 - Atrial / volume
6. a-v O₂ difference
 - Blood flow
 - Muscle metabolism
7. Blood Flow Regulation
 - Distribution
 - Regulation
 - I. Auto-regulation
 - II. Parasympathetic and Sympathetic NS
8. Sickle Cell Trait Supplementation

Relationships and Equations

1. Cardiac Output
 - $Q = SV \times HR$
2. Stroke Volume
 - $SV = EDV - ESV$
3. Ejection Fraction
 - $EF = SV / EDV$
4. Flow
 - Flow ∝ Pressure / Resistance
5. Resistance
 - $R = (Length \times Viscosity) / Radius^4$
6. Flow Pressure Product
 - $QPR = QPR \times PR$
7. Guyton's Circulation
 - $VO_2 = Q \times a-vO_2 \text{ diff}$
 - $VO_2 = HR \times SV \times a-vO_2 \text{ diff}$

Control of Cardiac and Blood Flow

1. Heart Rate Regulation
 - Sympathetic NS
 - Parasympathetic NS
 - Pressure, stretch and chemical receptors
 - Barore
2. Stroke Volume
 - Pressure - volume relationships
 - End diastolic volume (pre-load)
 - o Frank-Starling mechanism
 - Aortic pressure / peripheral resistance (after-load)
 - Ventricular contraction force
3. Autoregulation (after-load)

Respiration

1. Mechanics of Breathing
 - Lung volume
 - Pressure changes
2. Relationships
 - Ventilation
 - a. $V_E = I \times V_I$
 - b. $V_E = V_I + V_D$
 - Partial Pressure
 - a. $PO_2 = Atmospheric Pressure - Q_c \times Pa$

Answer Guide For Exercise Physiology

VM Jensen



Answer Guide For Exercise Physiology:

The Top Books of the Year Answer Guide For Exercise Physiology The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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