

Mammalian physiology

Module A:

1. Understand the composition of blood, including plasma proteins and their roles, as well as the functions of blood cells
2. Apply knowledge of the mechanism of blood coagulation, blood groups, and blood pressure regulation
3. Analyze the mechanism of heart function and its role in circulation

Module B:


1. Evaluate the different phases of nutrition and the functional relevance of the gastrointestinal tract and digestive glands
2. Explain the importance of the skeleto-muscular system and joint physiology, including the basic principles of skeletal muscle contraction
3. Interpret the functional relevance of the renal system, including the ultrastructure of the nephron and its implications in excretion

Module C:

1. Describe the role of the nervous system and the ultrastructure of neurons and glial cells, and their functional implications
2. Understand the exchange of gases and the transport of oxygen and carbon dioxide, including the oxygen dissociation curve
3. Analyze the endocrine coordination, including hormones and receptors, endocrine glands, and their functional significance, as well as common endocrine pathologies

Module D:

1. Evaluate the basic thermoregulatory adaptations and physiological adaptations in high altitudes and sea depths
2. Analyze the physiological adaptations seen in different environmental conditions
3. Apply knowledge of thermoregulation in different species and the ways they adapt to their environments.

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