

Review guide - Exam 1

In preparation for the upcoming exam, please be familiar with/know the following for Chapter 19:

- Components/Characteristics of whole blood
- What hematocrit is - reflect it means and what influences it
- What polycythemia is
- WBC types and functions of each (Table 19.2)
- Differences & similarities among formed elements (Table 19.3)
- Blood typing identifications based on agglutination upon exposure to particular antisera (Figure 19.1-4)
- General pathways of hemostasis/blood-clotting
- What happens in RBCs once they are worn out (Figure 19.5)

For Chapter 20:

- Layers of the heart and surrounding sac (pericardium) and their characteristics
- Chambers of the heart and associated structures, valves, and paths of blood flow through the heart (both pulmonary and systemic circuits)
- What cardiac output is and what influences it
- What factors regulate stroke volume and their corresponding effects
- Phenomena/occurrences associated with systole and diastole
- What heart sounds (s1 and s2) indicate
- Components of the cardiac conduction system
- ECG waves and what they represent

For Chapter 21:

- Differences (structural and functional) between arteries and veins; different circulatory types that blood flows through as it moves away from heart to the tissues of the body and then returns to the heart
- Vascular layers and associated functions
- Capillary types and functions
- Types of capillary exchange and forces impacting the dynamics of fluid movement into/out of the capillary
- Factors affecting blood flow; additionally, factors affecting blood pressure, vascular resistance, and venous return
- Neural regulation of blood pressure (baroreceptors, chemoreceptors) and hormonal regulation of BP (effects of RAAS system, norepinephrine, ANS, and ANP)
- Types of cardiovascular shock and associated causes of each

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Reza Nazari, Michael Smith



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Whispering the Secrets of Language: An Emotional Quest through **Mcas Science Questions Grade 8 Reference Sheet**

In a digitally-driven world where screens reign great and immediate conversation drowns out the subtleties of language, the profound strategies and mental subtleties hidden within phrases often get unheard. Yet, nestled within the pages of **Mcas Science Questions Grade 8 Reference Sheet** a fascinating literary prize sporting with fresh emotions, lies an exceptional quest waiting to be undertaken. Written by a skilled wordsmith, this charming opus invites visitors on an introspective trip, gently unraveling the veiled truths and profound affect resonating within ab muscles cloth of every word. Within the mental depths of the poignant review, we shall embark upon a honest exploration of the book is core styles, dissect their charming publishing type, and succumb to the powerful resonance it evokes serious within the recesses of readers hearts.

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