

Introduction

1. What are the three main functions of the circulatory system? Be able to describe the functions in a single word and be able to further explain what that single word means relative to the circulatory system.
 1. transport- O_2 , CO_2 , nutrients, wastes, hormones, stem cells
 2. regulation- fluid balance, pH, temp
 3. protection- hemostasis and immune system
2. What are the major components of the circulatory system?
 1. blood, blood vessels, and heart
3. What components makeup blood?
 1. plasma and formed elements
4. What primary tissue type did it come from?
 1. connective
5. What is the matrix and what are the formed elements?
 1. plasma; RBCs, platelets and WBCs
6. Which of the formed elements are not all cells?
 1. RBCs and platelets
7. The ratio of formed elements to plasma is measured using what test?
 1. hematocrit
8. Are you able to list the physical properties of blood including viscosity, color, pH, location of blood components when centrifuged, and volume?
 1. 4.5-5.5x's as viscous as water
 2. red
 3. 7.35-7.45 pH
 4. plasma- WBCs and platelets- RBCS
 5. f: 4-5L m: 5-6L
9. What is the composition of components in blood plasma including its average percent in a blood sample? Include some nutrients and some waste products.
 1. albumins, globulins, fibrinogens, nitrogenous wastes, glucose, fats, O_2 , CO_2 , Na^+
 2. 55%
10. What are the three main proteins in plasma and what are their functions?
 1. albumin; most abundant; transport hydrophobic substances and maintain osmotic pressure
 2. globulins; A&B transport hydrophobic substances; gamma globulins are antibodies
 3. fibrinogen; converted to fibrin to clot blood
11. Which protein is most abundant?
 1. albumin
12. Can you explain blood viscosity and what component of blood contributes most to the viscosity?
 1. resistance to flow; rbc
13. What issue(s) arise if blood viscosity is too high or too low?
 1. too high; BP rises
 2. too low; BP lowers
14. Can you define blood osmolarity?
 1. total substances that cannot pass through blood vessel wall
15. What issue(s) arise if blood osmolarity is too high or too low?
 1. too high; increase BP and blood volume
 2. too low; BP drops and edema occurs
16. Are you able to describe in general terms how blood is produced, i.e., from what type of cell it starts and where in the body this occurs?
 1. HSC>CFU
 2. bone marrow

Erythrocytes

17. Differentiate hemopoiesis from erythropoiesis.
 1. blood production

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