## Chapter 17 Blood

Blood Content. plasma + formed elements formed elements - living blood "cells" suspended in plasma



· leukocytes - (WBCs) while blood cells · platelets - cell pragments



Sticky, Opaque, metallic teste pH = 7.35 - 7.45 high 02-sociality low 02-dooksad V=5-61 men, 4-51 wown

Blood function:

1. Distribution - delevering 02 and nutrients to body cells; transporting metabolic wester to lungs and kidneys for climination; transporting hormones from endoexine organs to target organs

2. Kegulation maintaining body temps by absorbery and distributing heat; maintaining normal PH buggers maintaining accounts fluid idume in circulatory system

3. perstection - graventing blood loss - plasma proteins and platelels - dot formation; graventing injection

RBCs



Spectrum - provides flexibility to change shape no nucleus · 97% hemoglobin form fits purction

biconcave disks, anucleate, no organelles

RBC function: responsions gas transport, hemoglobin binds with 02

Hemoglobin - protein in RBC that cavories oragen

Globin:

·4 polypeptide chains · pigment bonded b globin

· 2 alpha +2 beta chains chain-gives blood and colore

Oxyhemoglobin - ruby red - Oa loading in lurgo deoxyhemoglobin - dook seed - Oa wloading in tissues Carrbaminohemoglobin - 2010 Coa in blood binds to Ho

- · here iron (Fe) binds to 10a
- · RBC asomil Hb molecules
- · Each Hb can produce 402

· formation of blood cells in oud bone morrow

hemocytoblasts-hematoporetic Stem Cells

hematorrit - % of blood volume that ( is in RBCs

49% ±5% (males), 42% ±5% (genales)

# **Anatomy Study Guide Blood**

**Calvin Yates** 

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