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Physiology Quiz

1. Identify the correct statement concerning erythropoietin hormone:

- A. Is secreted by red bone marrow.
- B. Is stimulated by androgen hormone.
- C. Is a component of hemoglobin.
- D. Is secreted 85% from the liver and 15% from the bone marrow.

Answer: B

2. Protein C:

- A. Is a major physiological anticoagulant.
- B. Decreases the formation of plasmin.
- C. Is activated by prothrombin to activated protein C.
- D. In its activated form degrades factor VII.

Answer: A

3. The size of RBCs increases in venous blood because of:

- A. Venous blood is more alkaline than arterial blood.
- B. Increased content of Cl⁻ and HCO₃⁻ inside the RBCs causing movement of water into the RBCs.
- C. Increased content of Na⁺ inside RBCs.
- D. Increased content of K⁺ inside RBCs.

Answer: B

4. Iron absorption:

- A. Occurs when the iron is in the ferric state (Fe³⁺).
- B. Requires gastric HCl.
- C. Is a passive process which depends on the body requirements.
- D. Occurs in the lower part of the small intestine.

Answer: B



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5. Concerning the synthesis of plasma proteins, the following statement is correct:
- A. All types are formed by the liver only.
 - B. Albumin, globulins and 50% of fibrinogen are formed by the liver.
 - C. Gamma globulins are formed by plasma cells in the lymphoid organs.
 - D. Albumin production is decreased in case of burns and kidney disease.

Answer: C



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