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Crash Course Anatomy & Physiology #30: Blood – Part 2

Name: _____ Date: _____

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1. Red blood cells are also called _____.
2. Erythrocytes account for nearly _____ percent of blood volume.
3. The distinct shape of red blood cells is described as _____.
4. Unlike most other cells, erythrocytes lack a _____.
5. Red blood cells survive on average about _____ days.
6. About 97% of the content of erythrocytes (not counting water) is _____.
7. Hemoglobin is made up of four protein chains called _____ and four pigments called _____.
8. The element _____ in the center of heme gives blood its red color.
9. Many mollusks have _____ blood because their oxygen-binding pigment is hemocyanin.
10. The formation of blood cells in the red bone marrow is called _____.
11. The stem cell that gives rise to red blood cells is the _____.
12. The hormone _____, produced mainly by the kidneys, stimulates red blood cell production.
13. The organ often called the "red blood cell graveyard" is the _____.
14. The yellow pigment _____, derived from heme breakdown, is secreted in bile and excreted in feces.
15. A dangerously high red blood cell count can make the blood too _____, leading to clots, strokes, or heart failure.

Crash Course Anatomy & Physiology #30: Blood – Part 2 KEY

1. Red blood cells are also called **erythrocytes**.
2. Erythrocytes account for nearly **45** percent of blood volume.
3. The distinct shape of red blood cells is described as **biconcave**.
4. Unlike most other cells, erythrocytes lack a **nucleus**.
5. Red blood cells survive on average about **120** days.
6. About 97% of the content of erythrocytes (not counting water) is **hemoglobin**.
7. Hemoglobin is made up of four protein chains called **globins** and four pigments called **hemes**.
8. The element **iron** in the center of heme gives blood its red color.
9. Many mollusks have **blue** blood because their oxygen-binding pigment is hemocyanin.
10. The formation of blood cells in the red bone marrow is called **hematopoiesis**.
11. The stem cell that gives rise to red blood cells is the **hemocytoblast**.
12. The hormone **erythropoietin (EPO)**, produced mainly by the kidneys, stimulates red blood cell production.
13. The organ often called the "red blood cell graveyard" is the **spleen**.
14. The yellow pigment **bilirubin**, derived from heme breakdown, is secreted in bile and excreted in feces.
15. A dangerously high red blood cell count can make the blood too **viscous**, leading to clots, strokes, or heart failure.

15 Questions

Answer Key Included

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