

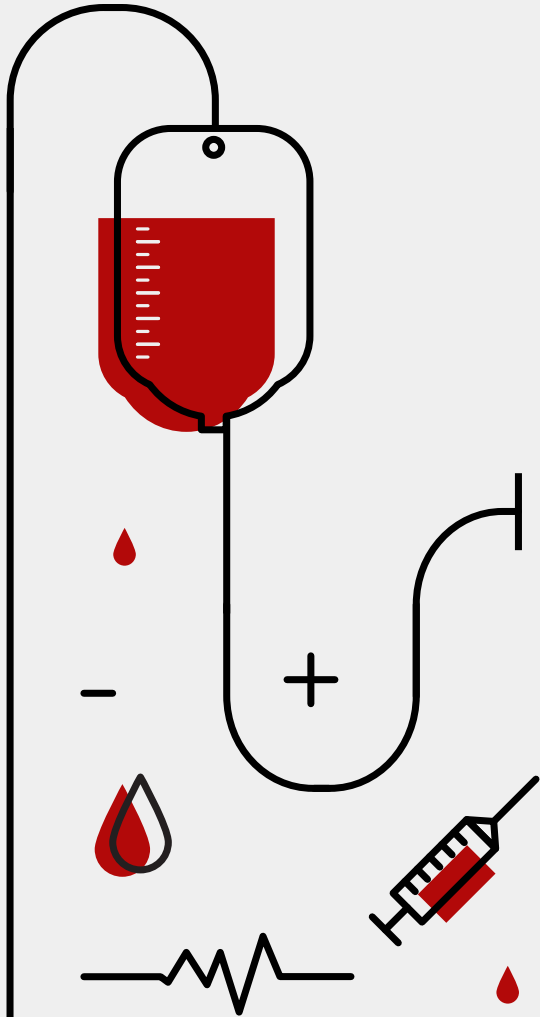
# RED BLOOD CELLS

Questions

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1. What is the primary function of red blood cells( RBCs?)

- a )Fight infections
- b )Transport oxygen from lungs to tissues
- c )Synthesize hemoglobin

**\*Answer:b )Transport oxygen from lungs to tissues**

2. Oxygen binds to which molecule in RBCs?

- a )Plasma
- b )Erythropoietin
- c ) Hemoglobin

**\*Answer \*:c )Hemoglobin**

3. Which process describes the formation of RBCs?

- a )Hemolysis
- b )Erythropoiesis
- c )Phagocytosis

**\*Answer \*:b )Erythropoiesis**



4 . The hormone erythropoietin is primarily secreted by which organ?

- a )Liver
- b )Bone marrow
- c )Kidney

**Answer :c )Kidney**

5. What is the normal RBC count in adult males( per  $\text{mm}^3$ )

- a 5–4.5 )million
- b 5.5–5 )million
- c 7 )million

**\*Answer \*:b 5.5–5 )million**

6 . Newborns have a higher RBC count due to:

- a )Testosterone
- b )Intrauterine hypoxia
- c )Excess iron intake

**Answer :b )Intrauterine hypoxia**



7 . What is the average hemoglobin content in adults?

a 12–10 )gm/dl

b 18–14 )gm/dl

15 C)gm%

**\*AnswerC):15 gm%**

8 . Hemoglobin in newborns may reach 19 gm/dl due to:

a )High oxygen levels

b )Intrauterine hypoxia

c )Excessive iron absorption

**\*Answer \*:b )Intrauterine hypoxia**

9 . The biconcave shape of RBCs aids in:

a )Reducing surface area

b )Enhancing oxygen and CO<sub>2</sub> transport

c )Increasing elasticity

**\*Answer \*:b )Enhancing oxygen and CO<sub>2</sub> transport**





10 . RBCs rupture when they absorb excess water because they lack:

- a )Flexibility
- b )Elasticity
- c )Hemoglobin

**\*Answer \*:b )Elasticity**

11 . Why do newborns have 7 million RBCs/mm<sup>3</sup>?

- a )High testosterone levels
- b )Intrauterine hypoxia stimulating erythropoietin
- c )Excess iron in milk

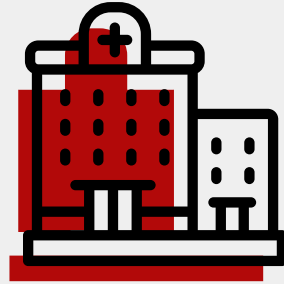
**\*Answer \*:b )Intrauterine hypoxia stimulating erythropoietin**

12 . The biconcave shape optimizes RBC function by:

- a )Reducing surface area
- b )Centralizing hemoglobin distribution
- c )Increasing water absorption

**\*Answer \*:b )Centralizing hemoglobin distribution**





13. Which hemoglobin form binds carbon monoxide?

- a )Oxyhemoglobin
- b )Deoxyhemoglobin
- C) Carboxyhemoglobin

**\*AnswerC) :Carboxyhemoglobin**

14. The red color of blood is due to:

- a )Deoxyhemoglobin
- b )Carbaminohemoglobin
- c )Oxyhemoglobin

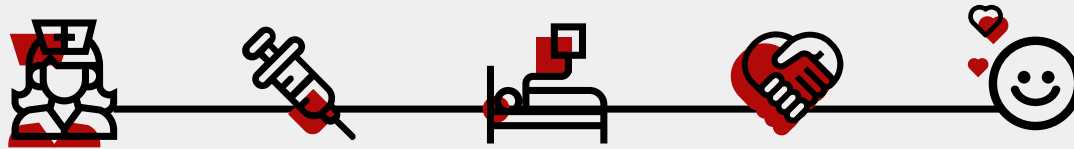
**\*Answer \*:c )Oxyhemoglobin**

15 . HbA1C is used to monitor:

- a )Iron deficiency
- b )Diabetes control
- c )Liver function

**\*Answer :b )Diabetes control**





17 . The primary regulator of erythropoiesis is:

- a )Vitamin B12
- b )Hypoxia
- c )Testosterone

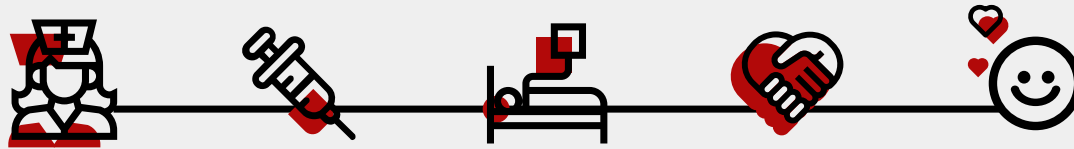
**\*Answer :b )Hypoxia**

18 . Erythropoietin is mainly secreted by the:

- a )Liver
- b )Bone marrow
- c )Kidney

**\*Answer :c )Kidney**





19. Which vitamin deficiency causes megaloblastic anemia?

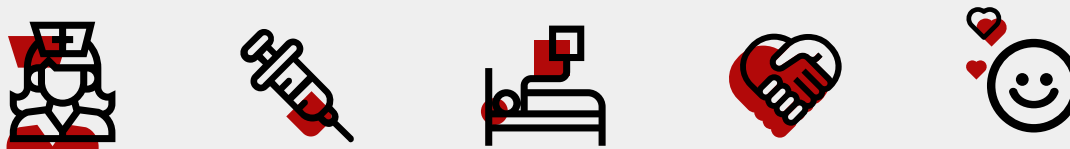
- a )Vitamin C
- b )Vitamin B12
- c )Vitamin D

**\*Answer \*:b )Vitamin B12**

20 . Renal failure patients are anemic due to lack of:

- a )Iron
- b )Erythropoietin
- c )Hemoglobin

**\*Answer \*:b )Erythropoietin**







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