Subject: **Biology** Teacher: **Mgr. Anna Demčáková**

Class: **III.A** Topic: **Circulatory system in humans**

1. **Read and complete the text with the correct words from wordlist below**

***Wordlist:*** *blood, capillaries, cardiovascular, cells, chamber, fluid, arteries, heart, organ, veins*

The circulatory system, also called the ­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ system, is an organ system that permits \_\_\_\_\_\_\_\_\_ to circulate and transport nutrients, oxygen, carbon dioxide, hormones, and blood \_\_\_\_\_\_\_\_\_\_ to and from the cells in the body. It consists of the blood, the blood vessels and the hearth.

Blood is a bodily \_\_\_\_\_\_ in humans and other animals that delivers necessary substances such as nutrients and oxygen to the cells and transport metabolic waste products away from those same cells.

The \_\_\_\_\_\_\_\_\_\_ vessels are the part of the circulatory system that transports blood throughout the human body. There are three major types of blood vessels: the \_\_\_\_\_\_\_\_\_, which carry the blood away from the hearth, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which enable the actual exchange of water and chemicals between the blood and the tissues, and \_\_\_\_\_, which carry blood from the \_\_\_\_\_\_\_\_\_\_\_\_\_ back toward the heart.

The heart is a muscular \_\_\_\_\_\_\_\_\_\_\_ in humans and other animals, which pumps blood through the blood vessels. It is divided into two parts, left and right sides. Each side of the heart has two \_\_\_\_\_\_\_\_\_\_ .

**VOCABULARY:**

*blood – krv*

*heart - srdce*

*aorta - srdcovnica*

*pulmonary - pľúcnica*

*pulmonary veins - pľúcne žily*

 *vessels - cievy*

*veins - žily*

*arteries - tepny*

*capillaries - vlásočnice*

*blood circulation - krvný obeh*

*right atrium - pravá predsieň*

*left atrium - ľavá predsieň*

*right ventricle - pravá komora*

 *left ventricle - ľavá komora*

*tricuspid valve - ľavá komora*

 *mitral valve - dvojcípa chlopňa*

*red blood cells - červené krvinky*

*white blood cells - biele krvinky*

*platelets - krvné doštičky*

*coagulation - zrážanie krvi*

1. **Match the words from in the text (1–5) to the definitions (A-E)**

**1** \_\_\_\_\_\_ attack **A**  the blood vessels that carries blood from the heart to the rest of the body

**2** \_\_\_\_\_\_ valve **B** a muscular organ which pumps blood through the blood vessels

**3** \_\_\_\_\_\_ bleeding **C** the smallest type of blood vessels with a wall that is only one cell thick

**4** \_\_\_\_\_\_ system **D**  a bodily fluid in humans and other animals which colour is red

5 \_\_\_\_\_\_ clotting **E** the blood vessels that carries blood towards the heart



**3. Look at the diagram and put these labels in the correct place**

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**4. Working in groups of five– snake**

*Take one card from the set of the cards. Read a definitions from one of your cards and put it in the middle of the table. Match the word on the table to definition from your card. Make the snake.*

*(Cards see in the apendix)*

1. **True/false statements**
2. The blood is pumped away from the heart to the lungs and returned, oxygenated, into the right side of the heart.
3. The deoxygenate blood comes to the lungs, where CO2 is released from the blood, and oxygen is absorbed.
4. The oxygenated blood is transported away from the herat to the rest of the body.
5. The oxygen-depleted blood from the body returns back to the left side of the heart.

Appendix

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| Erythrocyte  | The pale yellow liquid, component of blood |
| White blood cell | A blood cell that contains haemoglobine and gives the blood its colour |
| Platelet | A type of blood cell that protects the body against infection and produce antibodies |
| Haemoglobin | A small piece of a cell in the blood that helps the blood to clot |
| Blood plasma | A protein in red blood cells that carries oxygen from the lungs to all parts of the body |