

1. What are the 4 functions of the cardiovascular system?

Deliver O_2

Regulate body temp

Pick up CO_2

Fight infection

2. What are the 5 levels of organization?

Cell \rightarrow tissue \rightarrow Organ \rightarrow Organ System \rightarrow Organism

3. What are the 3 parts of the cardiovascular system and their functions?

Heart \rightarrow Pump

Blood \rightarrow carry O_2/CO_2

Blood vessels \rightarrow carry Blood

4. How many chambers does the human heart have? 4

5. Explain homeostasis

6. What are the 3 types of circulation?

Pulmonary \rightarrow to lungs

cardiac \rightarrow to heart cells

Systemic \rightarrow to body

7. What are the 4 parts of the blood and their functions?

Red blood cells - carry O_2/CO_2

platelets \rightarrow clot blood

White blood cells - fight infection

plasma \rightarrow liquid part of blood
(water)

8. What are the 3 types of blood vessels and their functions?

Artery \rightarrow Away from heart - thick & stretchy

Vein \rightarrow Back to heart - has valves

capillaries \rightarrow thin & allow blood cells to exchange O_2/CO_2

9. What prevents blood from flowing backwards and why is this important?

Valves \rightarrow Blood flows 1 way - doesn't mix

10. What are the 4 blood types? Which is the universal donor? Recipient?

A, B, AB & O

O = donor

AB = Recipient

+ O_2 poor
+ O_2 rich

11. Which chambers of the heart receive blood? Which expel blood?

Atria \leftarrow \rightarrow Ventricles

12. Which side of the heart is oxygen poor? Oxygen rich?

Right is poor (leads to lungs)

Left is Rich (leads to body)

13. Label the heart below.

Vena cava

Left atrium

Pulmonary vein

Right atrium

Left ventricle

Aorta

Right ventricle

Pulmonary artery

Valves

14. label how blood flows through the heart

15. Describe the path blood takes through your body (use the circle square triangle)

