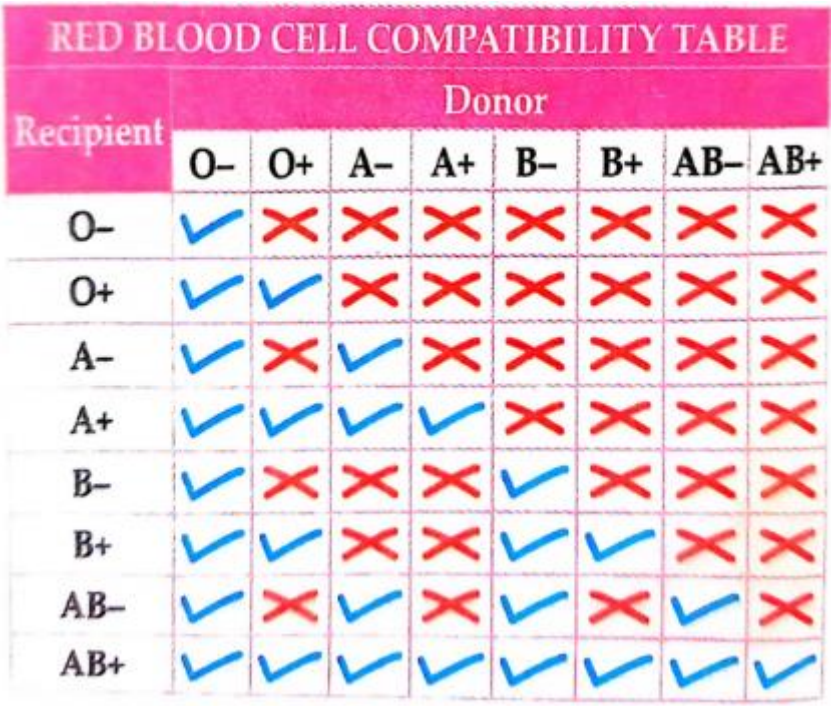
Physiological structure and life process

1. Define the blood circulatory system.
2. List the various components of blood.
3. What is a heart attack?
4. What is done in open heart surgery?
5. What is a normal heartbeat rate?
6. What is blood typing?
7. Describe pulmonary and systemic circulation.
8. Mention the different functions of blood.
9. Write the function of different types of valves found in the heart.
10. How can we prevent a heart attack?
11. What is plasma and why is it important?
12. Why is the blood red in color?
13. Why are there no valves in the arteries?
14. Why does an increased level of cholesterol trigger a heart attack?
15. Why Arteries are deep-seated but veins superficial in our body?

16. The table shows recipients and donors of different blood groups. Answer the following questions on the basis of it.



RED BLOOD CELL COMPATIBILITY TABLE								
Recipient	Donor							
	O–	O+	A–	A+	B–	B+	AB–	AB+
O–	✓	✗	✗	✗	✗	✗	✗	✗
O+	✓	✓	✗	✗	✗	✗	✗	✗
A–	✓	✗	✓	✗	✗	✗	✗	✗
A+	✓	✓	✓	✓	✗	✗	✗	✗
B–	✓	✗	✗	✗	✓	✗	✗	✗
B+	✓	✓	✗	✗	✓	✓	✗	✗
AB–	✓	✗	✓	✗	✓	✗	✓	✗
AB+	✓	✓	✓	✓	✓	✓	✓	✓

i. Name the antigens and antibodies found in blood group B+.

ii. Which blood group of them has no antibodies?

iii. Why can blood group O- be transfused to any blood group?

iv. Why can the blood group AB+ be transfused to the person with AB+ only?