

KPK Class 11 Biology Conceptual Questions – Chapter 12 Circulation

1. How is interstitial fluid formed?

Answer: Interstitial fluid is formed when blood plasma leaks out of the capillaries due to blood pressure. This fluid surrounds the body cells, providing them with nutrients and oxygen, and later collects waste products from them.

2. Why does the normal value of BP increase in old age? Explain your answer. [2]

Answer: As people age, their arteries become less elastic and more rigid, making it harder for the heart to pump blood. This increases the resistance in blood vessels, leading to higher blood pressure (BP) in old age.

3. If the baroreceptors are removed from an artery, what would be the effect? [2]

Answer: Baroreceptors are sensors that detect changes in blood pressure. If they are removed, the body would have difficulty detecting and regulating blood pressure, which could lead to dangerously high or low blood pressure levels.

4. What changes occur in BP and cardiac output during strenuous exercise? [2]

Answer: During strenuous exercise, both blood pressure (BP) and cardiac output (the amount of blood the heart pumps) increase. This helps to supply more oxygen and nutrients to the muscles that are working hard.

5. If we don't take water the whole day in the month of June, what would be the effect on the volume of lymph? [2]

Answer: If we don't drink water, especially in hot months like June, the body's fluid levels drop, leading to a decrease in lymph volume. This can cause dehydration and make it harder for the body to remove waste products and fight infections.

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