KPK Class 10 Biology Short Questions – Chapter 13

Support and Movment

	1. Why are bones considered as dynamic structures? □						
•	Bones aren't just dead things! They're constantly changing and growing.						
•	They get stronger when you work out 4, and they can repair themselves after injuries.						
•	This is why we say they're "dynamic" – they're always moving and changing.						
	2. What is the contribution of Vesalius in understanding the human skeleton?						
•	Vesalius was a smart guy who studied bones a long time ago.						
•	He drew really detailed pictures of skeletons and wrote books about them.						
•	This helped people understand how bones fit together and work.						
•	He's like the first "bone expert"!						
	3. Describe the function of three major types of joints and give an example of						
	each.						
•	Immovable joints: These joints don't move at all, like the bones in your skull. ■						
•	Slightly movable joints: These joints can move a little bit, like the bones in your spine.						
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•	Freely movable joints: These joints can move in many different directions, like your						
	shoulder and elbow joints. □♀						
	4. How are different types of arthritis caused?						
•	Arthritis is when joints get inflamed and hurt.						
•	There are different types of arthritis, but they all have something to do with the cartilage						
	in your joints.						
•	Cartilage is a soft, squishy substance that helps bones move smoothly.						
•	When cartilage gets damaged or worn out, it can cause arthritis.						
	5. Differentiate between a skeletal muscle's origin and insertion.						

•	The origin	of a muse	cle is the	end that stay	s still when	the muscle	contracts.
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- The insertion is the end that moves.
- For example, when you bend your elbow, your biceps muscle contracts.
- The origin of the biceps is near your shoulder, and the insertion is near your elbow.

6. State the functions of flexors and extensors.

- Flexors are muscles that help you bend your joints.
- Extensors are muscles that help you straighten your joints.
- For example, when you bend your knee, your hamstrings (flexors) contract.
- When you straighten your knee, your quadriceps (extensors) contract.

Here are answers to your questions about ligaments, tendons, and the functions of bones:

7. What are ligaments and tendons? What function do they perform?

- **Ligaments** are like strong rubber bands that hold bones together at joints.
- Tendons are like strong cables that connect muscles to bones.
- Together, they help our bodies move and stay stable. □♀

8. State five functions of bones. \square

- Support: Bones hold up our bodies and give us shape. □♀
- Protection: Bones protect our organs, like our brain and heart.
- Movement: Bones work with muscles to help us move.
- Storage: Bones store minerals, like calcium and phosphorus. 🖻
- Blood cell production: Bones make blood cells in the bone marrow. □