



BCM SCHOOL, BASANT AVENUE, DUGRI
CLASS- V SESSION 2025-26
SUBJECT- JULY SCIENCE ASSIGNMENT-2
TOPIC- THE SKELETAL SYSTEM
ANSWER KEY

A	MCQ	
1.	Which one of the following is the main function of the skeletal system? A) To digest food B) To breathe C) To provide support and protection to the body ✓ D) To circulate blood	
2	Which of the following is the hardest part of the human body? A) Bone ✓ B) Muscle C) Skin D) Hair	
3	Which among the following is the name of the joint that connects the upper arm bone to the forearm bones? A) Elbow ✓ B) Knee C) Shoulder D) Hip	
B	ASSERTION /REASON	
1	Assertion: The ribcage protects the heart and lungs. Reason: The ribcage is a cage-like structure made of bones. i) Both A and R are correct. ✓ ii) Both A and R are incorrect. iii) A is correct but R is incorrect. iv) A is incorrect but R is correct.	
2	Assertion: Joints allow movement in the body. Reason: Joints are points where two or more bones meet. i) Both A and R are incorrect. ii) Both A and R are correct. ✓ iii) A is correct but R is incorrect. iv) A is incorrect but R is correct	
C	ANSWER THE FOLLOWING QUESTIONS	
1	What will happen if we do not have bone? There would be no structure or shape to the body. we would not be able to walk and run. we would not be able to stretch and bend.	
2	Why is it important to hold good postures? Good posture is about more than standing up straight. so that we can look your best. it is important to our overall health. it can help avoid muscle tension, pain, fatigue and improve your mood.	

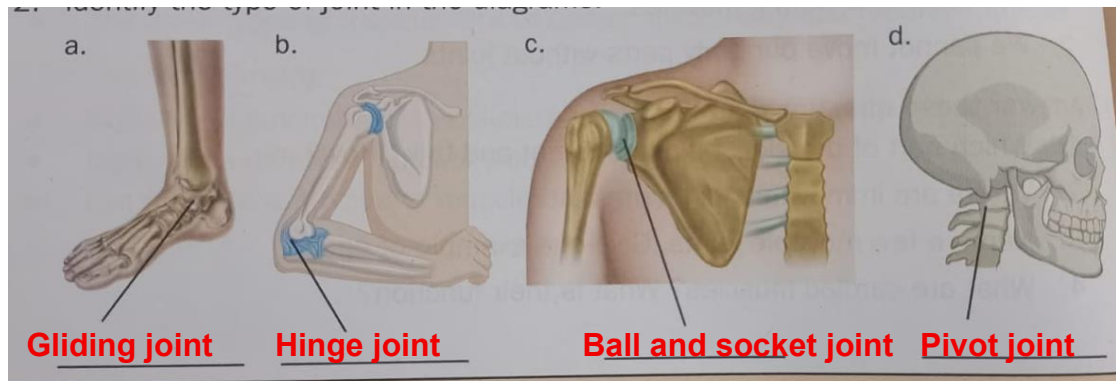
- 3 What is the difference between skeletal muscles and smooth muscles?
- Skeletal Muscle:**
1. **Attached to bones:** Helps move bones and body parts
 2. **Voluntary control:** We can control its movement (e.g., walking, running)
 3. **Striated appearance:** Looks striped under a microscope
- Smooth Muscle:**
1. **Found in organs:** Helps organs like the digestive tract, blood vessels, and airways work
 2. **Involuntary control:** Works automatically without our conscious control
 3. **Non-striated appearance:** Doesn't look striped under a microscope

- D CASE STUDY
- Rahul, a 10-year-old boy, loves playing sports. One day, he fell while playing soccer and hurt his knee. He couldn't move his leg properly.



- 1 Why do you think Rahul found it hard to move his leg after getting hurt? Which body parts might be affected?
The knee joint or the bones surrounding it (femur, tibia, fibula) might be affected.
- 2 How does the skeletal system help us move?
The skeletal system helps us move by providing a framework of bones and joints that work together with muscles.
- 3 If Rahul wants his knee to heal quickly, what steps should he take and why are they important for the bones and muscles?
 - Rest his knee
 - Apply ice to reduce swelling
 - Consult a doctor for proper diagnosis and treatment.

- E Identify the type of joint in the diagrams and write where do we find these joints in our body.



Gliding joints-Wrist and ankle
Ball and Socket-shoulder and hip joint

Hinge joint-Elbow and knee
Pivot joint- Skull and vertebrae