

B.K. BIRLA CENTRE FOR EDUCATION



SARALA BIRLA GROUP OF SCHOOLS A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

PT-II -2025

SCIENCE

MARKING SCHEME

	Class: IX Time: 1hr Date: 11.11.25 Max Marks: 25	
-	Section A (Biology)	
	c) kidney	(
	Fats are stored in: Adipose tissue (a type of connective tissue).	(
	Usefulness:	
	Acts as an energy reserve.	
	Provides insulation and helps maintain body temperature.	
	Cushions and protects internal organs.	
3.	Differentiate between cartilage and bone.	(
	Feature Cartilage Bone	
	Hardness Soft and flexible Hard and rigid	
	Blood supply Lacks blood vessels (avascular) Rich blood supply	
	Cells Chondrocytes Osteocytes	
	Differentiate between tendons and ligaments.	(
	Feature Tendons Ligaments	
	Function Connect muscles to bones Connect bones to bones	
	Elasticity Less elastic More elastic	
	Injury Healing Heal slowly (less blood supply) Heal slowly (low blood supply)	
	Section-B (Chemistry)	
	b) Atom	
	6 a) AlCl ₃	
	b) Na ₂ O	
7.	An ion is an atom or group of atoms that has a net electrical charge due to the loss or gain	n
	one or more electrons. Examples of ions include the Na ⁺ , Ca ²⁺ , S ²⁻ , CO ₃ ²⁻	
	o All matter is composed of extremely small particles called atoms.	
	o Atoms are indivisible, meaning they cannot be created or destroyed.	
	o Atoms of a given element are identical in mass and properties.	
	o Atoms of different elements have different masses and different chemical properties.	
	o Atoms of different elements combine in fixed, simple whole-number ratios to form compounds.	

o In chemical reactions, atoms are combined, separated, or rearranged, but they are neither created nor destroyed.

Section-C (Physics)

9.	(c) Remains the same	1
10.	Pressure is the force acting per unit area perpendicular to the surface. S.I unit Pascal.	(1+1)
11.	P=F/A.	1
	= 200/ (0.5)=400Pa	1
12.	(a) F _b =60-40=20 N	1
	(b) Weight of water displaced = Buoyant force = 20 N	1
	(c) Since apparent weight \neq 0 (40 N > 0), the object sinks .	1