



GRADE: IX	MT 2 (2024-25)	Marks: 20 Time: 50 minutes
Date:06/11/2024	SCIENCE	

Q.No.	Questions	Mark
	Section A	
	Choose the correct answer	
1	The relative atomic mass of the atom of an element is the $1/12^{\text{th}}$ mass of one atom of _____ a. C^{13} b. C^{12} c. C^{14} d. P^{15}	1
2	SI unit of Energy is (a)KW (b) W (c) V (d) J	1
3	The atomic theory was proposed by a. Antoine L Lavoisier b. Joseph Priestly c. John Dalton d. Louis Pasteur	1
4	A battery lights a bulb. The sequence of energy transfer in the process is (a)electrical energy to heat and light (b)chemical energy to electrical energy and then heat and light (c)chemical energy to heat and light (d)chemical energy to light	1
5	Rapid elongation of a bamboo stem is due to a. Lateral meristem b. Intercalary meristem c. Apical meristem d. Cambium	1
	Section B	
	Answer The Following	
6	State the essential condition for work to be done and define one joule of work	2

7	State the two laws of chemical combination.	2
8	Which cell organelle controls most of the activities of the cell? Two structural elements of this cell organelle?	2
Short Answer Questions		
9	Define kinetic Energy and derive its mathematical expression for an object of mass m moving with a velocity V due to applied force F .	3
10	<p>a. Classify the following as diatomic, triatomic, tetra atomic, and polyatomic molecules of elements. (F_2, S_8, O_3, P_4)</p> <p>b. Find the chemical formula of the following substances</p> <ol style="list-style-type: none"> 1. Calcium sulphate 2. Magnesium chloride 	3
11	Differentiate between parenchyma, collenchyma, and sclerenchyma with suitable diagrams.	3

Prepared by – AG, SR, and RR. Checked by Ms. Kochurany, HOD – Science.