

(b) What do you mean by atomic mass unit?

(d) State law of constant proportions

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Class: 9th Genesis

Subject: Science

Test code: SEP16(21021319)

M. Marks: 20

1.	(a) State law of conservation of mass?	(2)
	(b) What mass of silver nitrate will react with 5.85 g of sodium chloride to produce 14.35 g of silver	ver
	chloride and 8.5 g of sodium nitrate if the law of conservation of mass is true?	
2.	Calculate the molecular masses of the following:	(2)
	(i) C ₁₂ H ₂₂ O ₁₁ (ii) Al ₂ (SO ₄) ₃	
3.	(a) Which postulate of Dalton's atomic theory is the result of the law of conservation of mass?	(2)
	(b) Which postulate of Dalton's atomic theory can explain the law of definite proportion?	
4.	Write the limitations of Dalton's atomic theory?	(3)
5.	Calcium carbonate (CaCo ₃) contains 40% calcium, 12% carbon and 48% oxygen by mass. Knowing	រូ that
	the law of constant composition holds good, calculate the mass of the constituent elements pres	ent
	in 2 g of calcium carbonate.	(3)
6.	(a) What are molecules?	(3)
	(b) State the difference between homoatomic & heteroatomic molecules and give examples.	
7.	(a) What is meant by atomicity of a molecules? Give examples of monoatomic, diatomic & tetra	
	atomic molecules	(5)

Chemistry

(c) Why is copper represented by the symbol 'Cu' while there is no letter 'u' in the name?