

CLASS:XI	INDIAN SCHOOL MUSCAT FIRST PERIODIC ASSESSMENT	CHEMISTRY:																
	SET - C																	
QP.NO.	VALUE POINTS	SPLIT UP MARKS																
1.	a	1																
2.	b	1																
3.	Atomicity	1																
4.	Absolute zero	1																
5.	Avogadro law statement	1																
6.	a) $3 \times 16 / 100 = 48\%$ b) $1.8 / 180 \times 6.022 \times 10^{23} = 6.022 \times 10^{21}$	1 1																
7.	a) Parts per million b) Law of multiple proportion	1x2																
8.	a) P decreases, V increases b) Aqueous tension	1x2																
9.	a) $S + O_2 \rightarrow SO_2$ LR=Sulphur SO ₂ formed, 32 g of S=64 g of SO ₂ 16 g S=32 g of SO ₂ b) $M = \frac{w \times 1000}{M \times V} = \frac{8 \times 250}{40 \times 1000} = 0.05M$	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$																
10.	<table border="1"> <thead> <tr> <th>Element</th> <th>mass</th> <th>moles</th> <th>Ratio</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>40.68</td> <td>$40.68 / 12 = 3.39$</td> <td>1=2</td> </tr> <tr> <td>H</td> <td>5.08</td> <td>$5.08 / 1 = 5.08$</td> <td>1.5=3</td> </tr> <tr> <td>O</td> <td>54.24</td> <td>$54.24 / 16 = 3.39$</td> <td>1=2</td> </tr> </tbody> </table> <p>$EF = C_2H_3O_2 = 59$</p> <p>$M_{mass} = VD \times 2 = 2 \times 59 = 118$</p> <p>$n = \frac{2 \times 59}{59} = 2$</p> <p>$MF = C_4H_6O_4$</p>	Element	mass	moles	Ratio	C	40.68	$40.68 / 12 = 3.39$	1=2	H	5.08	$5.08 / 1 = 5.08$	1.5=3	O	54.24	$54.24 / 16 = 3.39$	1=2	$(\frac{1}{2} \times 3 = \frac{1}{2})$ $\frac{1}{2}$ 1
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11.	a) $V = nRT/P = 0.2 \times 0.083 \times 304.1 / 1 = 5.04L$ b) Volume increased 4 times	2 1																