

SET	A/B/C
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INDIAN SCHOOL MUSCAT
FINAL EXAMINATION 2023
SCIENCE - CHEMISTRY

CLASS:

Max.Marks:

MARKING SCHEME			
SET	QN.NO	VALUE POINTS	MARKS SPLIT UP
SET A	8	A	1
	9	C	1
	10	A	1
	11	A	1
	18	A	1
	19	B	1
	21	Sodium electron dot structure & atomic number OR Mass no = p + n 31 = 15 + n 31 - 15 = n 16 = n	1.5 mark & 0.5 mark 0.5 mark 0.5 mark 1 mark
	22	two difference between homogeneous and heterogeneous (each difference 1 mark)	2
	32	Latent heat of fusion 1 Latent heat of vaporization 1 Sublimation 1	3
	33	a) Tyndall effect 1 b) It is homogeneous, particle are not enough to scatter light 1 c) Ink, paint etc	3
	34	i) Sodium oxide : Na_2O ii) Aluminium Chloride : AlCl_3 iii) Sodium sulfide : Na_2S	Total 5

		iv) Magnesium Hydroxide : $\text{Mg}(\text{OH})_2$ (each 0.5 mark) Formula unit mass of $\text{ZnO} = (\text{Atomic mass of Zn}) + (\text{Atomic mass of O})$ $= (65 + 16)u = 81u$ Formula unit mass of $\text{Na}_2\text{O} = (2 \times 23) + 16$ $= 62u$ Formula unit mass of $\text{K}_2\text{CO}_3 = (2 \times 39) + 12 + (3 \times 16)$ $= 138u$ Each 1 mark OR a) Aluminium sulfate Calcium chloride. Potassium sulfate. Potassium nitrate. Each 0.5 mark b) 3 5 Each 1.5 mark	
	38	1)D 2)A 3)B 4)C	
SET B	22	Write any two differences between mixture and compound (each difference 1 mark)	2
	32	<ul style="list-style-type: none"> Rate of evaporation increases with rise in temperature. Evaporation is less when exposed surface area decreases. Less evaporation if moisture content is high in the air. Each 1 mark	3
SET C	22	Write any two differences between physical change and chemical change (Each difference 1 mark)	2
	32	a) 'P' is fusion (melting), 'O' is boiling, 'R' is condensation and 'S' is sublimation. (each 0.5 mark) b) Directly converting gas in to solid 1 mark	3