INDIAN SCHOOL MUSCAT

ANNUAL EXAMINATION

FEBRUARY 2020

SET A

CLASS IX

Marking Scheme – SCIENCE [THEORY]/ CHEMISTRY

SECTION - A		
Q.NO.	ANSWER	MARKS
1	Definition	1
4	CHE	
4(a)	(c) Smoke + fog	1
4(b)	(a) Carbonic acid	1
4(c)	(a) Biosphere	1
4(d)	(b) Dry ice	1
12	(a) Increase in temperature of water. OR (a) Temperature and pressure	1
	For question numbers 13 and 14, two statements are given- one labeled *Assertion* (A) and the other labeled *Reason* (R). Select the correct answer to these questions from the codes (i), (ii).(iii) and (iv) as given below i) **Both A and R are true and R is correct explanation of the assertion.** ii) **Both A and R are true but R is not the correct explanation of the assertion.** iii) **A is true but R is false.** iv) **A is false but R is true**	
13	(a)	1
SECTION - B		
15	a) Chromatography b) Sublimation c) Centrifugation d) Evaporation	3

	Separating funnel – Heavier liq: forms lower layer Lighter liq: forms upper layer	
16	a)$CuCl_2$ b) $CaSO_4$ c) $Na_3 PO_4$ OR a)Definition Relation b)XO	1 1 1 1
17	Three conclusions	3
	SECTION- C	
25	a) 8 b) 16 c) Isotopes d) Oxygen e) O^{2}- OR a) At: no:20 , Mass no: 40 b) Calcium Diagram	5
26	a) Law b) Mol:mass= 100 Formula n=m/M No : of molecules = n * N_0 Ans: $3.011 * 10^{23}$ c) Definition –Triatomic –ozone O_3	5

	SET B **SECTION – A**	
Q.NO.	ANSWER	MARKS
1	Definition	1
4	CHE	
4(iv)	Dry ice	1
4(iii)	Smoke +fog	1
4(i)	Carbonic acid	1
4(i)	Biosphere	1
12(c) (iii)	Evaporation , Diffusion , Expansion of gases OR Steam	1

	For question numbers 13 and 14, two statements are given- one labeled *Assertion* (A) and the other labeled *Reason* (R). Select the correct answer to these questions from the codes (i), (ii).(iii) and (iv) as given below **i. Both A and R are true and R is correct explanation of the assertion.** **ii. Both A and R are true but R is not the correct explanation of the assertion.** **iii. A is true but R is false.** **iv. A is false but R is true**	
13	(iii)	1
	SECTION – B	
15	a) One difference b) Fractional distillation c) Definition	3
16	a) $(NH_4)_2 SO_4$ b) KOH c) $Mg(NO_3)_2$ OR a) 3 b) XCl_3 , $X_2(SO_4)_3$	3
17	Three observations	3
	SECTION- C	
25	(a) 6 (b) A and B (c) A/B/D (d) C (e) G OR i. 9electrons ii. Valency-1 iii. Fluorine iv. Diagram	5
26	(a) Any 4 postulates (b) Definition-any one example (c) Formula unit mass= 58.5u Mass= 50g No of moles = m/M = 50/58.5 =0.854moles	5
	SET C **SECTION - A**	
Q.NO.	ANSWER	MARKS
1	Definition	1

4	CHE	
4(a)	(c) Smoke + fog	1
4(b)	(a) Carbonic acid	1
4(c)	(a) Biosphere	1
4(d)	(b)Dry ice	1
12	Increase in temperature/Increase in surface area OR (c) Steam	1
	For question numbers 13 and 14, two statements are given- one labeled *Assertion* (A) and the other labeled *Reason* (R). Select the correct answer to these questions from the codes (i), (ii).(iii) and (iv) as given below i) **Both A and R are true and R is correct explanation of the assertion.** ii) **Both A and R are true but R is not the correct explanation of the assertion.** iii) **A is true but R is false.** iv) **A is false but R is true**	
13	(i)	1
15	a) Chromatography b) Sublimation c) Centrifugation d) Evaporation (b) Separating funnel – Heavier liq: forms lower layer Lighter liq: forms upper layer	3
16	a) Fe_2O_3 b) $BaSO_4$ c) $NaHCO_3$ OR Definition Any 2 differences.	3
17	Three features of Rutherford's model	3
	SECTION- C	
25	a) 8 b) 16 c) Isotopes d) Oxygen e) O^{2-} OR a) i) 9 ii)1 iii)Fluorine b) Diagram	5

26	a) Law b) Mol: mass= 100 Mass= 25g No : of moles = m/M = 25/100=1/4 =0.25 No: of molecules = n* N 0.25* $6.022*10^{23}$ =1.505 $*10^{23}$molecules c) Definition Example	5
