

ANSWERS TO IN-CHAPTER EXERCISES

A	1.(a) 1	(b) 2	(c) 2, 6	(d) 2.65, 5.3	(e) 106g	(f) 1.5×10^{23}	(g) 3.0×10^{-23}
	2. C	3. A	4.(i) B	(ii) A	(iii) B		
B	1.(a) 33.3%, 66.7%, 0.026, 0.96	(b) 74.8 gm	2. C				
	3.(a) $\frac{10xd}{M_0}$; $\frac{1000x}{(100-x)M_0}$	(b) $\frac{10x}{M_0}$; $\frac{1000x}{(100d-x)M_0}$					
C	4.(a) 1.33 g/cc	(b) 12.75 gm	5. 39.5%, 0.069, 8.26, 4.13				
	6.(i) A	(ii) B	(iii) D	(iv) D	(v) C	(vi) AB	
D	(vii) D	(viii) D					
	1.(a) 2.16 gm	(b) 44.8 mL	(c) 25 %	(d) 84, 32			
E	2.(i) D	(ii) C	(iii) A	(iv) A	(v) B	(vi) A	
	(vii) B	(viii) A	(ix) A	(x) A			
F	1.(a) 14	(b) 127.5 mL	(c) 1.32 g/cc	(d) 2	(e) 42	(f) 0.5	
	2. 10	3. 66.25 %, 33.75 %	4.(i) D	(ii) B	(iii) C		

ANSWERS TO MISCELLANEOUS EXERCISE

1. C	2. B	3. A	4. B	5. B	6. A	7. D
8. A	9. D	10. B	11. B	12. D	13. A	14. D
15. B	16. D	17. A	18. A	19. C	20. B	21. A

Atomic Weights of Most Commonly used Elements :

ELEMENT	SYMBOL	ATOMIC WEIGHT	ELEMENT	SYMBOL	ATOMIC WEIGHT
Hydrogen	H	1.0	Helium	He	4.0
Carbon	C	12.0	Nitrogen	N	14.0
Oxygen	O	16.0	Fluorine	F	19.0
Sodium	Na	23.0	Magnesium	Mg	24.0
Aluminium	Al	27.0	Phosphorus	P	31.0
Sulphur	S	32.0	Chlorine	Cl	35.5
Potassium	K	39.0	Calcium	Ca	40.0
Chromium	Cr	52.0	Manganese	Mn	55.0
Iron	Fe	56.0	Copper	Cu	63.5
Zinc	Zn	65.4	Arsenic	As	75.0
Bromine	Br	80.0	Silver	Ag	108.0
Tin	Sn	119.7	Iodine	I	127.0
Barium	Ba	137.4	Gold	Au	197.0
Mercury	Hg	200.0	Lead	Pb	207.0