

# Cambridge Chemistry Challenge Lower 6th

December 2025

## Student Answer Booklet

Student name \_\_\_\_\_

School \_\_\_\_\_

Account Number \_\_\_\_\_

Date of exam \_\_\_\_\_

	p2	p3	p4	p5	p6	<b>Total</b>
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1(a)

(i)

(ii)

2

(iii)

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(iv)

1

1(b)

(i)

1

(ii)

2

1(c)

(i)

(ii)

2

(iii)

2

1(d)

(i)

(ii)

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(iii)

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(iv)

2

1(e)

(i)

1

(ii)

2


(iii)

2


1(f)

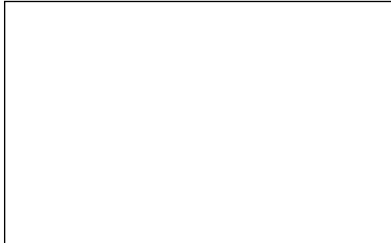
(i) 

(ii) 

(iii) 

(iv) 

(v) 

1(g) 

15

2

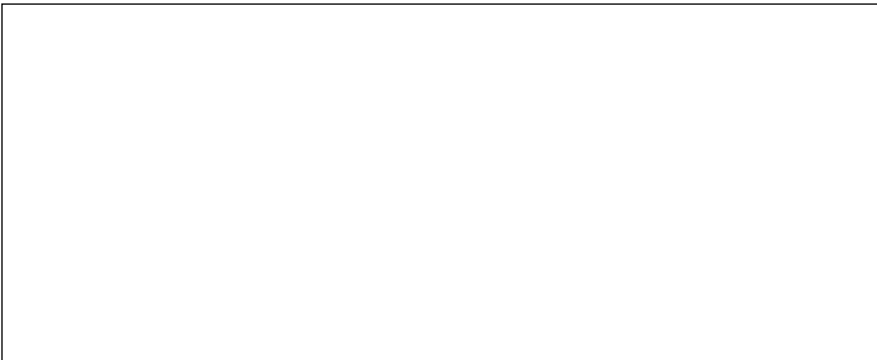
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1

1

1(h)

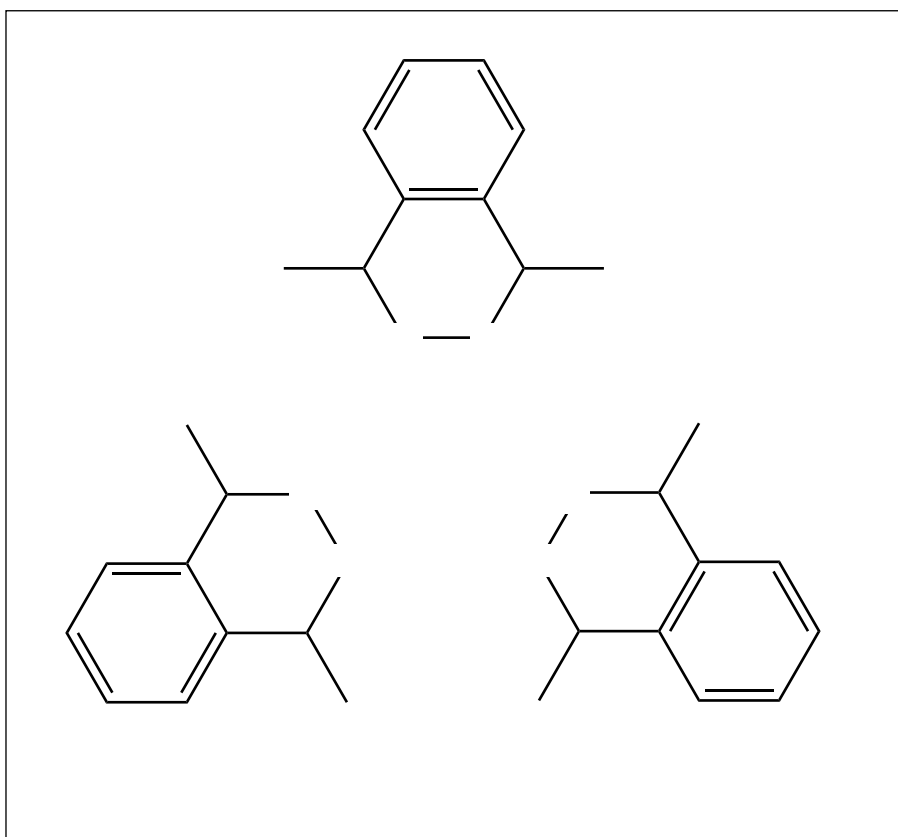
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(ii) 

(iii) 

1(h)

(iv)



2

1(j)

(i)

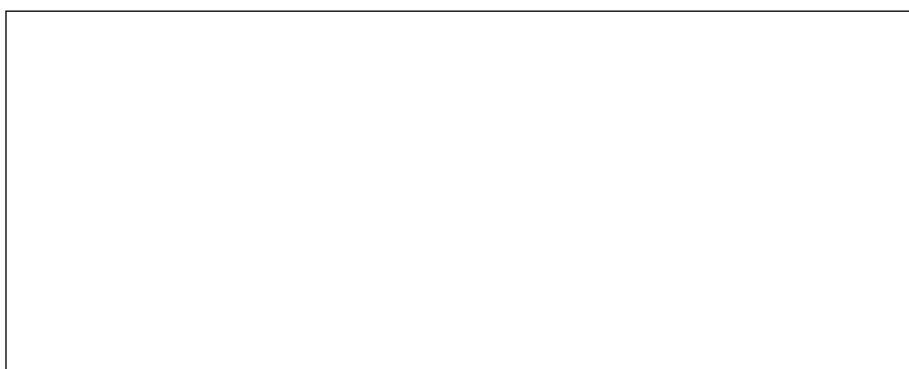


(ii)



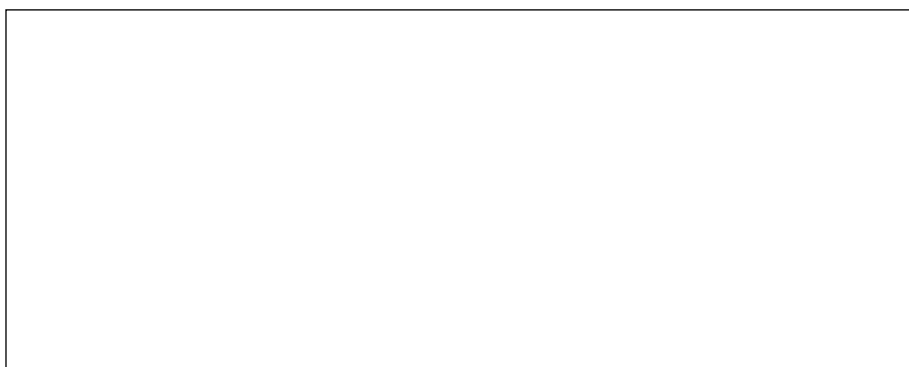
2

(iii)



2

(iv)



2

1(k)

(i)

2

(ii)

2

(iii)

2

(iv)

6

(v)

2

Period	Group Number																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	s-block		d-block										p-block					
	Symbol		atomic number										mean atomic mass					
1	H 1 1.008	He 2 4.003											B 5 10.81	C 6 12.01	N 7 14.01	O 8 16.00	F 9 19.00	Ne 10 20.18
2	Li 3 6.94	Be 4 9.01											Al 13 26.98	Si 14 28.09	P 15 30.97	S 16 32.06	Cl 17 35.45	Ar 18 39.95
3	Na 11 22.99	Mg 12 24.31											Ga 31 69.72	Ge 32 72.63	As 33 74.92	Se 34 78.97	Br 35 79.90	Kr 36 83.80
4	K 19 39.10	Ca 20 40.08	Sc 21 44.96	Ti 22 47.87	V 23 50.94	Cr 24 52.00	Mn 25 54.94	Fe 26 55.85	Co 27 58.93	Ni 28 58.69	Cu 29 63.55	Zn 30 65.38	In 49 114.82	Sn 50 118.71	Sb 51 121.76	Te 52 127.60	I 53 126.90	Xe 54 131.29
5	Rb 37 85.47	Sr 38 87.62	Y 39 88.91	Zr 40 91.22	Nb 41 92.91	Mo 42 95.95	Tc 43	Ru 44 101.07	Rh 45 102.91	Pd 46 106.42	Ag 47 107.87	Cd 48 112.41	Tl 81 204.38	Pb 82 207.2	Bi 83 208.98	Po 84	At 85	Rn 86
6	Cs 55 132.91	Ba 56 137.34	Lu 71 174.97	Hf 72 178.49	Ta 73 180.95	W 74 183.84	Re 75 186.21	Os 76 190.23	Ir 77 192.22	Pt 78 195.08	Au 79 196.97	Hg 80 200.59	Nh 113	Fl 114	Mc 115	Lv 116	Ts 117	Og 118
7	Fr 87	Ra 88	Lr 103	Rf 104	Db 105	Sg 106	Bh 107	Hs 108	Mt 109	Ds 110	Rg 111	Cn 112						

Lanthanoids:		f-block												
*	La 57 138.91	Ce 58 140.12	Pr 59 140.91	Nd 60 144.24	Pm 61	Sm 62 150.36	Eu 63 151.96	Gd 64 157.25	Tb 65 158.93	Dy 66 162.50	Ho 67 164.93	Er 68 167.26	Tm 69 168.93	Yb 70 173.05
+	Ac 89	Th 90 232.04	Pa 91 231.04	U 92 238.03	Np 93	Pu 94 239.04	Am 95 241.06	Cm 96 247.07	Bk 97 247.07	Cf 98 251.08	Es 99 252.08	Fm 100 257.10	Md 101 258.10	No 102 259.10

The Avogadro constant  $N_A = 6.022 \times 10^{23} \text{ mol}^{-1}$