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Question Bank
Advanced
HIGHER
Chemistry

**Self-Evaluation
Question Bank**

<div> <div>Advanced Higher Traffic Lights</div> <div> <div>Past Paper Question Bank</div> <div>Section 1a: Electromagnetic Radiation & Atomic Spectra</div> </div> <div> <div>Copyright</div> <div>JABchem</div> </div> </div>															
Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
1 2 4											L2a				
3	mc1 mc22		mc1				mc3 mc5					mc1	mc2 mc3 mc4		mc1
5															
6 7 9															
8 13 14															
10 11 12		L1d		L5e	L13e	L4a		L3c	L1b	mc5 L1a	L2b	L1a(i)	L4d	mc1 mc2	L1b
15 16															
17 18					mc6										
19 20					mc4 mc5	mc1		L3a L3b	mc1			mc5			mc3
21												mc4	mc7	mc4	

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
1 2 4															
3		mc3	mc1		mc1								(mc2) (mc3) (mc4)		(mc1) L1b(ii)
5															
6 7 9															
8 13 14						L5a									
10 11 12	L1a	L1c	L1b L6a	L1b	L1a L5c(i)	L5c(i) L7d(ii)C							(L4d)	(mc6) L1a(ii)	L1b(i)
15 16														L1d	
17 18	mc2	mc27	L3b(ii)												
19 20	L1c	L1a L1b		L1a(i) L1a(ii)	L5a	mc1								L1a(i)	(mc2)
21		L4c(i)			L10c(i)A L10c(i)B	L3b(ii) L3b(ii) L3b(iii)							(mc7)	(mc7)	

Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
22															
23															
24															
25															
26						L3c	mc10								
27															
28a															
28b						L3d									
28c															
28d															
29a	mc11	g32b		mc1	mc3	mc7	mc4			mc1 mc3				mc3	
29b															L1a(ii)
29c			mc6				mc9						mc5		
30						L3b									L1a(i)
31															
32		g32a g32c				L3a			L1a						
33					mc1			mc1		mc2					
34				L1a						mc4	mc1		mc1		
35				L1b	mc2		L7b						mc6		
36															
37						mc5	mc7			L1b(i) L5b	mc3		mc10		
38															
39				mc6				L1a	mc4			L4a			
40	L9a			mc7											
41	g32a	mc21	L1c							mc6	mc4	mc6	mc11	mc6	mc2
42	g32b	L2a	L3c	mc2	mc9	mc2	mc6		L12b	L1b(ii)	mc9			mc7 L1d	mc6
43	L9b	L2b						L1b							

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
22															
23															
24															
25					mc3										
26		L4b(ii)	L2b												
27															
28a															
28b	mc1	mc1			mc2	mc4								mc1 L1c(iii)	
28c			L2c												
28d	L1b(iii)			mc3 L1b(ii)	L2b(ii)	L1a									L1a(iii)
29a			mc2		L1b(i)									mc2 (mc10)	
29b	L1b(ii)	L4a(iii)												L1c(ii)	(L1a(ii))
29c													mc5	mc5 L1b	
30		L4b(i)											L1a		(L1a(i))
31															
32	L1b(i)		L2a	mc2									mc10 L1b	L1c(i)	
33			mc3												
34													(mc1)		
35													(mc6)		
36															
37													(mc8)		
38															
39															
40															
41	mc4	mc3	mc4	L2b(i)	mc4	mc5							(mc9)	(mc8)	(mc4)
42	mc5												(mc9)	(mc9)	mc5
43				L2b(ii)											

Past Paper Question Bank

Section 1c: Transition Metals

Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
44															
45				L5a			L7a(i)								
46	L1a	L1c	mc7	mc8	L3b		L7a(ii)	mc2 mc11 L2b(iii)			L4a	mc2 mc3 L1a(ii)	L5b	L4e	mc2 L3b(iii)
47 48	mc5 L3b	mc19	mc4		L7a	L1b(i)	L9b(i)		L12a		L3a	L2a		mc8 L2c	L3b(i)
49 50															L3b(ii)
51 52				L5c				mc10					mc14		L3b(iv)
53							L9b(ii)								
54 55					L3a		L9a	L4a(i) L4a(ii)	L8c(i)			mc7			
57	mc9		mc5 L4a						L8c(ii)		L5b(ii)			L4a L9a	
56 58		mc18		L5b	L5a(i)		L9c	L2b(i) L2b(ii)	mc8	L2a L2b L2c	L4c	L2c	L5c	L4b	mc9
59 60 61	L1b L1c(i) L1c(ii)			L5d											
62															
63 64 65	mc2 mc3 L1c(iii)		mc2	mc9				L2a			mc10		L5a	L4c	
66 67 68															
69a				L7b(ii)					L7b						
69b 70															

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
44															
45		L4a(ii)		L4a(ii)	L10b	mc6								mc3	
46			L3a(iii)										L5c(ii)	(mc11)	(mc3)
47		L4a(i)		L4a(i)	mc6	mc7									
48															
49															
50															
51													(mc10)		
52															
53															
54		L11a(ii)		L6a(ii)	L6a L6b(iii)A L6b(ii)B	mc8									mc7
55															
57	L5b(i)		L3b(i)	mc4 L6a(i)									L5a		mc8
56	mc3	mc4	mc5 mc16	mc5		L5b(i)							L5c(i)		(mc6)
58															
59															
60															
61															
62			L3a(ii)												
63	L6b(ii)		L3a(i)		mc5	L5b(ii)							L5d(i)	mc4	mc9
64			L3b(iii)										L5d(ii)		
65													L5d(iii)		
66					L4a										
67															
68															
69a				L4b(ii)B											
69b															
70															

Past Paper Question Bank

Section 2a: Chemical Equilibrium

Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
71 72	mc8	mc1 L4d	mc13	mc12 mc13	mc13	mc11		mc13		mc11 L7a	mc12		mc18 mc22	mc11	
73							L2a								
74 76		L4c	mc14				L2b		mc10	L7b	mc13	mc10		mc12 mc13	L5a(i)
75					mc21	mc21									
77															
78								mc12							
79					mc14		mc14	mc14	mc12			mc8			L5a(ii)
80															
81				mc2				mc3							
82			L3b(i)												
83														L1c	
84 85	L4a+b+c				mc15										
86												mc12			
87															
88			mc17					mc15							
89 90 91	L6a	L5b			L8a	L5c	L3a+b	mc16	L6a(i)	mc13	mc16	L7c			
92															
93 94															
95										L8a					
96															
97			mc16										mc21		mc14
98	mc24				L8b L8c	mc14 L5a		L9a L9b	L6a(ii)						
99		L10c	L11a			L5b	L3c		mc16 L6b	L8b		L7a	L6a		
100					mc16										
101															
102															
103				L8a							L9a				
104					mc17			L9c	mc15		L9b	mc11			mc13
105	L6b(iii)	L10d	L11b											L12b	
106	L6b(i) L6b(ii)			L8b		mc13					L9c		L6b	L12a	
107															
108			L12a												
109 110 111 112 113			L12b		mc18	mc15									
114	mc13	mc11	mc15					L9d		mc14		mc13	mc23		

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
71 72					mc7 mc10	L1c							mc13 (mc18)		
73					L2a(i)										
74 76		mc5		L2a(i)											(L6a(i))
75			L7a												
77															
78	mc8			L2a(ii)		mc9									
79															(L6a(ii))
80															
81															mc4
82															
83															
84 85															
86															
87															
88					mc9								L3		
89 90 91		L2a	mc6		mc8	L4a(i) L4a(ii) L4b									
92															
93 94															
95	mc10			L6b(ii)	L2a(ii)								mc17		
96															
97		mc6													
98		mc9 L2b	L5a			L4c(i)									
99	L4a		L5b	mc7	L2b(i)	L4c(ii)B							(L6a)		
100	mc9	L2c	L9b(iii)		mc11										mc20
101				L6b(i)											
102															
103															
104			mc8		mc12										(mc21)
105	L4b(ii) (3marks)					L4d (3marks)								(L13b)	
106	L4b(i)	mc7											(L6b)	(L13a)	
107															
108															
109 110 111 112 113			mc7			L4d (3marks)									
114	mc7	mc8		mc6									(mc18)		

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Section 2b: Reaction Feasibility

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Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015	
115															mc15	
116																
117		L3a		L3a	mc19	L1a(i)	mc16	L5a(i)	L2b	L3a				L3a(i)	L2a	
118	g31a L9d	mc13 mc16	mc26	mc21	mc20	mc20	mc20	mc19	mc18 mc19		mc23 mc24	mc21	mc27 mc28		mc21	
119																
120																
121																
122																
123																
124																
125								mc18							mc18	
126																
127		L3b	L10a			L1a(ii)	L1a	L5a(ii)	L2a	L3b				L2a	L3a(ii)	L2b
128	mc14				mc22 mc23			L5a(iii)		L3c						
129			mc22	mc22			mc22		mc17						mc19 mc20	
130																
131	mc10			mc15										L2b		
132	g31b g31c	mc10		mc23	mc21											
135																
133		L3c		L3b L3c		L1a(iii)	L1b		L2c			mc20		L3b	L2c	
134																
136																

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
115		mc10	mc9												
116															
117			L1a(i)	L3a(i)A	L4d(i)A	mc11								(L3a(i))	(L2a)
118															
119		mc11	mc10			mc12							(mc20)		
120															
121															
122	mc12												mc19		
123															
124															
125	mc11														(mc22)
126															
127	L2a	L7a	L1a(ii)	L3a(i)B	L4d(i)B								(L2a)	(L3a(ii))	(L2b)
128	L2b	L7b		mc8	mc13	L1b									
129	L2c					mc10									(mc23)
130															
131													(L2b)		
132															(mc24)
133		mc12	L1b	L3a(ii)	L4d(ii)									(L3b)	(L2c)
134															
136															

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Section 2c: Kinetics

Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
137															
138 139	L8c	L5a(i)	mc21		L7b(i)	L7b	mc24 L4a				L7b	L10a L10b	L8a	L10a L11d	mc26 L5b(i)
140 141 142		mc14 L5a(ii)	L9a		mc25 L7b(ii)	mc25	L4b		mc21				L8b	L10b(i)	
143				L7c(i)		L7c		L10d(i)	mc20	L9c	L7a				
144						L7a								mc24	mc25
145			L9b	L7c(ii)	L7b(iii)	L7d	L4c	L10d(ii)		L9d	L7c	L10c	L8c	L10b(ii)	L5b(ii)
146 147	mc7	L5a(iii)		mc27		mc24			L7a	L9a L9b				mc23	mc24
148	L8b							L10d(iii)						L10c	

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
137															
138 139	mc13 L3a	L9a	L6b(i)	mc9		L2a							(L8a)	(L11a)	(L6b(ii))
140 141 142	L3b	L9b	L6b(ii)	L4b(i)	L9d(i)	mc13 L2b(ii)							(L8b)	(L11b(i))	
143						L2b(i)									
144	mc14	mc13												(mc13)	
145	L3c	L9c	L6b(iii)	mc10	L9d(ii)	mc14							(L8c)	(L11b(ii))	mc26 (L6b(ii))
146 147		mc14	mc11	L4b(ii)A	mc14	L2c								(mc14)	
148															

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Section 3a: Molecular Orbitals

Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
149															
150															
151															
152															
153															
154															
155															
156															
157															
158															
159							mc31							mc26	
160		L4b						L10b(ii)		mc28					
161									L12c						
162b						mc36	mc29					mc28			
163															
162a															
164								L10b(i)							
165															
166												mc29			
167	L9c		mc32			mc28			mc26		mc30	mc30			
168															
169															
170															
171															
172															
173															
173															
174															
175															
176															

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
149															
150															
151															mc10
152															
153															
154															
155															
156															
157															
158															
159		mc16				L7b(i)								(mc15)	
160	mc17		L9a(iii)												
161															
162b				mc11									L1c		
163															
162a						L7b(ii)									
164															
165															
166					mc15										
167			mc12	mc12		mc15									
168															
169															
170															
171															
172															
173															
173						L5a	L7c								
174															
175															
176	mc16	L3			L5b L5c										mc18

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Section 3b: Synthesis Page 1

Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
177															
178															
179															
182a			mc29	mc29			mc25			mc26					
180															
182b															
181															
183															
184 185															
186				mc31			mc29			mc10 mc31					
187 188															
189									mc24						
190		mc28								mc30			mc30 mc39		
191															
192		L12d	mc36												
193						mc35			mc25	mc29	L11b(i)	L12a			L9a L9c
194															
196	L11a			mc32		mc26 L12c(i)	mc34	mc37		mc38 L13a		mc33 L4c	mc34		mc28 L10a+d
195															
197															
198															
199			mc35				mc33								
200															
222				mc28				L10a			mc26		L10d	mc25	mc29 L10b
201a									L9b	L11c		mc23 L15a	L10c		
201b															
211	mc23	mc27	L6c	L10b L10c(i)	L9a(i) L9b		mc36	mc31 L11a(i)+b	mc28	mc25 mc33	L13b(i)			mc29	mc32
201c		L10a+b		L9b	L10b	L12a+b		mc30		L12c				L8b(iii)	
202															
206	L8a+d		L6a(i)+b	L10c(ii)	mc28	L12d(i)					L13a(i)	mc25	L8d	L10c	
203															
205a									mc23		L13a(ii)				
204															
205b			L6a(ii)		L11a	L12d(ii)					L13b(ii)	L15b			L10c
207															
208a															
208c		L12e	L5a(i)	L9c	mc26					g32d			mc29	L7b(ii) L7b(iii)	
209				L9a(i)		L8a	L12b								
210			mc34 L5b(ii) L5d	mc33	mc37 L9a(ii)	mc33 L9a L12c(ii)	mc35	L11a(ii) L12c(i)	mc31				L13b		
212											mc32				mc33
213															
214															
215		mc26			mc29	L8b L10a		mc25 mc33		mc32	mc27		mc33		mc31
216															
217				L10a									mc35		

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
177															
178															
179	L9b		L8c										L10b		
182a															
180															mc13
182b															
181															
183															
184 185		mc17		mc14											L11a(i)
186															
187 188															
189															
190	L7a(i)	mc22	mc18										(mc28)		L4a
191															
192	L8a	L6a	mc13 L7b(iii) L9a(i)	L8a(i)	mc16 L6b(i)	mc16 L10b(i)							L7a L7b		mc11 (L9a+d) (L9d(ii))
193	L9c														
194	mc24 mc26 L6a	L6d(ii)											mc30		(L10a) (L10d)
196															
195															
197															
198		mc19												mc18	
199															
200	L9d				L9a								mc23 (L10d)	(mc19)	(mc14) (L10b)
222															
201a					L8d								(L8e) (L10c)		
201b	mc25		mc16		mc18	L10c(i)							mc23	(mc21)	mc15
211															
201c		mc18	mc20	L9b	mc19	mc22								(L9b(iii))	
202	L3d		L8d										(L8d)	(L11c)	
206															
203	L3e	mc28	mc23	L9c		L10c(ii) L10c(iii)									
205a															
204															(L10c)
205b															
207															
208a															
208c	L7b(ii)		mc21 L8e	mc15	L10c(ii)	mc20							(mc22)	L8b(iii)	mc16
209			mc21												
210					L7a(iii)										
212				mc17											
213															
214	mc23	mc20											(mc25)		
215															
216		mc21		L9d		L10a L10b(ii)							(mc26)	L5a	
217															

Past Paper Question Bank

Section 3b: Synthesis Page 2

Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
218 219 220	mc6 L12c(i)		mc31			mc31		mc26 mc27 mc29	mc29					mc28	
221			L5b(i)												
222															
223a															
223b 225			mc39 L5a(ii)		mc35						mc31		L10e		
223c 226a 227a	L10c(i)	mc30	L5c			mc27	L12b(ii)	mc24	mc27	L11b		mc28	mc31	L7b(i)	mc30
224a	L10c(ii)	L12c													
208b 223d 226b 227b								L10c							
224b															
228															
229															
230				mc36			L10a L10b	mc32	mc30 mc32	L11e		L13b			
231															
232															
233															
234		mc5		L11c	L5b								L11b		
235			mc27					mc33	mc34	mc34			mc37		mc36
236 237	mc25		mc28				mc26 mc30	mc34			mc33				
238				mc37							mc34	mc34		mc34	
239 240 241															
242	L5a L5c			mc38		L11b	mc38	mc35	mc33	mc37		mc31			L8a
243															
244		L6a	mc33				mc27	L13a	mc35	mc36				L8c	L8b(ii)
245	mc15	L6b				L11a(i)		L13b			mc35				
246			mc38	L4c	L10a		L8c			L11d		mc35	L10a	L6a L6b	L8b(i)
247			mc37	mc30	mc40	L11a(ii)		L13c	L10a		mc36	L14a(i)	mc38		L8c(ii)
248						L11a(iii)		L13d				L14b(i)			

Advanced Higher Traffic Lights		Past Paper Question Bank Section 3b: Synthesis Page 2											Copyright JAB chem		
Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
218 219 220			mc14											(mc20)	
221															
222															
223a															
223b 225			mc19 mc21	L11c									(L10e)		
223c 226a 227a	mc27			L9a(i)									(mc24)	(L8b(i))	
224a	L7b(iii)			L9a(ii)											
208b 223d 226b 227b	mc21				L9b									mc25	
224b															
228															
229															
230															
231															
232															
233															
234				mc16	L7a(ii)	mc19								mc24	
235	mc22	mc24												mc23	(mc17)
236 237			mc15												
238															
239 240 241															
242		mc23	mc22 L9a(ii)	mc18	L10a	L8									(L8a)
243															
244		mc26			L7a(i)	mc21								(L6c)	(L8b(ii))
245															
246	L9a		L8b										(L10a)	(L6a) (L6b)	(L8b(i))
247													(mc27)		(L8c(ii))
248															

Past Paper Question Bank

Section 3c: Stereochemistry

Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
249 250															
251 252															
253a 254a 255a	L10a	L4a	L5e(i)	mc40	L11b	mc36		L4b	L9b	L11a	mc37		L13a	mc35	L9b
253b 254b 255b												mc36			
256															
257 259	L10b		L5e(ii) L11c(i)	L10d	L10c		L11a	mc36			L14b	L12b(i) L12b(ii)		L8a	mc37
258						L9b L9c			mc38	L12d(ii) L12d(iii)					
260 261 262															
263			L11c(ii)											mc36 L10d	L10f

Advanced Higher Traffic Lights		Past Paper Question Bank Section 3c: Stereochemistry											Copyright JAB chem		
Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
249 250															
251 252															
253a 254a 255a	mc20	L11a(i)			L4b L4c	mc17 mc18								(mc16)	(L9c)
253b 254b 255b				L8b											
256															
257 259	mc18 L8b	L10a	L7b(i) L7b(ii)	L8c(i)	L7a(iv)	L9a(i) L9a(ii) L10d								(L9a)	(mc12)
258				L8c(ii)	mc17										
260 261 262															
263	mc19	L6b L6d(i)		mc13										(mc17) (L11d)	(L10f)

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Section 3d: Experimental Determination of Structure

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Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
264 265			L11a L11b	L12b(i)			L13a(i)								L11a
266 267		mc4		L12b(ii)	L13b	mc37	L13a(ii) L13b	mc38	L13b(i)		L11a	mc37	L14a		L11a
268															
269 270		g31b								mc39					
281 282	L11b(i) L11b(ii)		L7b	L12c(i) L12c(ii)	L13c(i) L13c(ii)	mc38	mc40	L12c(iii)	L11a L11c		mc38		L14b L14c	mc37 mc38	L11b
283 284				mc39		mc39						mc39		mc39	
285 286 287												mc38			
288	mc27		L7a	L12a(i) L12a(ii)	L13a			mc39	L11b(i) L11b(ii)	mc40	L11b(ii)		L12c	mc33 L8b(i)	
289											mc39				
291 292 293 294			L7c			L13a	L13c(i)			L13b(i) L13b(ii)	mc40				L10e L11c
295						L13b	L13c(ii)								
296 297															
298 299													L14d		
300	L11c							L12c(ii)				L15c			
			L7d	L12d	L13d		L13c(i)		L11d						

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Section 3e: Pharmaceutical Chemistry

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Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
301 302 303															
304													mc40		
305 306 307	mc30	L13b	L8a	L11a	L12a	mc40	L11c		mc40			mc40			mc39
308		L13a													
309 310			L8b					mc40							mc40
311			L8b	L11b	L12b		L11b				L10a L10b		L11c	mc40	

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
264 265															(L12a)
266 267	L10a	L13a(i)	L10a		mc20	mc24							(L12a)		(L10a)
268															
269 270															
281 282		L13a(ii)	L10c(i) L10c(ii)	mc19	mc21	mc23							(L12b) (L12c)	(mc26) mc28	(L10b)
283 284	mc28	L10b				L7d(ii)A								(mc27)	
285 286 287															
288	L10b	mc25 L13b	L10b	mc20	mc22	L7d(ii)B							(L9b(i))	(mc29)	L11a(ii)
289															
291 292 293 294	L8c			L8a(ii) L11b(i)	L9c L10d								L7c		mc19 (L10e)
295															
296 297															
298 299		mc29	mc24	L11b(ii)		mc25							L12d		
300						L10e									
	L10c	L13c	L10d												L11c

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Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
301 302 303															
304													(mc29)		
305 306 307	L8d	L6b	L8a	mc21	mc23	mc26							L7d	L7a	L11b
308															
309 310	mc30			mc21 L8d(i) L8d(ii)											
311		mc30	mc25											(mc30)	

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Past Paper Question Bank

Section 4a: Common Chemical Apparatus

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Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
312a															
312b															
312c															
312d															
312e															
312f															
312g															
312h															
312i															
312j															
312k															
312l															
312m															
312n															

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Section 4b: Skills Involved in Practical Work

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Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
313a															
313b															
313c															
313d															
313e					L6a(i)										
313f															
313g												L5b			
313h	L2	L12b	L2	mc10 L6a L6b(i) L6b(ii)	L6	L2	L6	L6		L6	L4b L5b(iii)		L9b	L4f L5	mc10
313i															
313j															

Advanced Higher Traffic Lights		<div> <div>Past Paper Question Bank</div> <div>Section 4a: Common Chemical Apparatus</div> </div>											<div>Copyright</div> <div>JABchem</div>		
Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
312a															
312b															
312c															
312d															
312e															
312f															
312g															
312h															
312i															
312j															
312k															
312l															
312m															
312n															

Advanced Higher Traffic Lights		<div> <div>Past Paper Question Bank</div> <div>Section 4b: Skills Involved in Practical Work</div> </div>											<div>Copyright</div> <div>JABchem</div>		
Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
313a															
313b															
313c															
313d															
313e															
313f															
313g				mc30											
313h													(L5b)	L2	
313i															
313j				mc26 L10a(iii)		L6d									L3c

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Section 4c: Stoichiometric Calculations

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Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
314 315			mc10 mc11			mc10									
316b 316c 316d 320d	L2c(i)		mc9	mc11 L6b(i)	mc12 L6a(ii)			L6a	mc9	L6a(ii)	mc11		mc16 mc17		L7b(i)
320a															
320b 320c			L2a											L4f(i) L4f(ii)	
316a					L6a(iv)										
317	L2c(ii)			L6b(ii)											
318															
319															
320e							mc12								
320f		mc20													
320h															
320g 321							L12a(iv)			L10d		L13e		L9c	
322															

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Section 4d: Gravimetric Analysis

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Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
323 324					mc11				L8c(iv)						
325a 326		mc29				mc9	mc13		L8c(iii)				mc15	L5b	
325b 327															

Advanced Higher Traffic Lights		Past Paper Question Bank Section 4c: Stoichiometric Calculations											Copyright JAB chem		
Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
314 315				mc27 mc28											
316b 316c 316d 320d		mc15	mc28		mc24 L3b(i)								(mc12)		(L3b(i))
320a				mc29											
320b 320c															
316a						L4c(ii)A									
317															
318															
319	L6b		mc26	L4c	L7b	mc27								L1e	
320e															
320f															
320h															
320g 321		L11b	L9b(v)	L7b		L9b(ii)							L11b(i)	(L7b(ii))	L4c
322													L11b(ii)	(L9b(ii))	

Advanced Higher Traffic Lights		Past Paper Question Bank Section 4d: Gravimetric Analysis											Copyright JAB chem		
Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
323 324	L5a(ii) L6c(i)	L5a	L4a(i) L4b(ii)	mc22	mc28 L6c(i)										
325a 326	L5a(i) L5(iii)		mc29	L6a(iii)A L6a(iii)B L6a(iii)C	L6c(ii)	mc3							(mc11)	(L2b) L12	mc30
325b 327	L6c(ii)				L3b(ii)	mc2									

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Section 4e: Volumetric Analysis

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Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015
328	L2b					L2a		L8a	L7c(ii)	L6a(i)					
329															
330															
331															
332														mc10	
333															
334															
335															
336					L6a(iii)										
337			mc12			L2c		L6b		L6a(iii)		L5a			
338						mc8	L6b				L5a L5b(iii)		L9b		
339 340 341			L2a L2b(i) L2b(ii)		L6b										L7b

Advanced Higher Traffic Lights		Past Paper Question Bank Section 4e: Volumetric Analysis											Copyright JAB chem		
Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
328			L4a(iii) L4c		L3a L3c										
329															
330	L6d(iii)	L5b	L4a(ii)										L9b		
331	L6d(iv)					L3a							L9c		mc28
332	L6d(ii)												L9a		
333															
334 335		L5c(i)	mc27											L2d	mc27
336	L6d(i)													L2c	
337				L10a(i) L10a(ii)											
338			mc30			mc30							(L5b)		
339 340 341		L5c(ii)				L6a L6b									L3a (L3b)

Advanced Higher Traffic Lights		Past Paper Question Bank Section 4f: Practical Skills & Techniques														<small>Copyright</small> JAB chem	
Outcome	Old AH 2001	Old AH 2002	Old AH 2003	Old AH 2004	Old AH 2005	Old AH 2006	Old AH 2007	Old AH 2008	Old AH 2009	Old AH 2010	Old AH 2011	Old AH 2012	Old AH 2013	Old AH 2014	Old AH 2015		
342		L7		L6c					L8b		mc2		L4a				
343																	
344																	
345																	
346																	
347																	
348																	
349																	
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362																	
360																	
361																	
363																	
365a																	
366																	
367																	
368																	
365b																	
369																	
370																	
371																	
372																	
373																	
374																	
375																	
376																	
377																	
378																	

Advanced Higher Traffic Lights		Past Paper Question Bank Section 4f: Practical Skills & Techniques											Copyright JAB chem		
Outcome	Exemplar Paper	Speciman 2015	AH 2016	AH 2017	AH 2018	AH 2019	AH 2020	AH 2021	AH 2022	AH 2023	AH 2024		revisedAH 2013	revisedAH 2014	revisedAH 2015
342		L4c(i)		mc23 L10a(iii)	L10c(i)A L10c(i)B	L3b(i) L3b(ii)							(L4a)		
343 344 345 346		L4c(ii)				L3b(iii)							(L4c)		
347 348 349					L8a L8b L8c										
350 351 352			L9b(i) L9b(ii)	L11a(ii)	mc30										
353 354 355			L4b(i)			L7a									
356 357 364	mc29	L8b	L9b(iv)	L7a(i)	mc26	mc28							mc21		L4b
358 359 362	mc8	L8a(i) L8a(ii)		mc25 L11a(i)		L7d(i)							L5b		
360 361		L8a(iii)			mc25	mc29									
363															
365a 366 367															
368					mc27										
365b 369	L7a(ii)			L7a(ii)											L4d
370 371 372		L8c(i)			L7c										
373 374															
375 376				mc24	mc29										mc29
377															
378		L8c(ii)													L4e