



Chemistry (Revised) Advanced Higher 2013

Section A

Number of persons in test: 103
 Average test score: 21.48
 Average facility value: 71.59
 Reliability: 0.75

Item	Key	Content Area	Abilities	Fac	Disc	% Choosing Option			
						A	B	C	D
1	C	Inorganic 2d	KUa	88	22	4	3	88*	5
2	B	Inorganic 1a	KUa	75	21	17	75*	2	7
3	A	Inorganic 1a	KUb	75	19	75*	11	7	8
4	D	Inorganic 1a	KUb	69	17	11	4	17	69*
5	A	Inorganic 2b	KUa	81	27	81*	8	10	2
6	A	Inorganic 2b	KUb	56	23	56*	11	26	7
7	C	Inorganic 1d	KUa	65	26	19	6	65*	10
8	B	Inorganic 3	KUb	72	21	11	72*	11	7
9	C	Inorganic 3	KUb	69	19	18	3	69*	10
10	B	Inorganic 4b	KUb	71	13	8	71*	11	10
11	A	RC	Skills	50	38	50*	35	6	9
12	B	RC	Skills	58	55	2	58*	10	30
13	C	Physical 1e	KUb	83	38	0	10	83*	8
14	A	Physical 1a	KUb	90	38	90*	0	4	6
15	D	Physical 1a	KUb	83	36	15	1	2	83*
16	C	Physical 1c	KUb	70	32	8	9	70*	14
17	D	Physical 1e	KUc	74	12	2	11	14	74*
18	A	Physical 1i	Skills	71	22	71*	22	5	2
19	B	Physical 2c	KUa	66	28	19	66*	8	7
20	D	Physical 2b	KUb	47	20	10	14	30	47*
21	C	RC	KUb	85	14	7	7	85*	1
22	D	Organic 3k	KUb	87	38	3	5	5	87*
23	A	Organic 3n	KUb	84	24	84*	9	1	6
24	D	Organic 3i	KUb	73	25	7	7	14	73*
25	B	Organic 3f	KUb	81	35	5	81*	8	7
26	D	Organic 3g	Skills	62	26	13	14	11	62*
27	C	Organic 3m	KUa	63	32	1	24	63*	12
28	A	Organic 3n	KUb	56	21	56*	22	12	10
29	D	Organic 6b	KUa	94	19	5	0	1	94*
30	D	Organic 3j	Skills	50	39	27	14	9	50*



Chemistry (Revised) Advanced Higher 2014

Section A

Number of persons in test: 261
 Average test score: 23.21
 Average facility value: 77.36
 Reliability: 0.73

Item	Key	Content Area	Ability	Fac	Disc	% Choosing Option			
						A	B	C	D
1	B	Inorganic 2 a	KU	70	13	15	70*	15	0
2	C	Inorganic 2 c	Skills	89	10	0	1	89*	9
3	C	Inorganic 4 a	KU	50	26	23	19	50*	8
4	D	Inorganic 4 d	KU	92	4	5	3	0	92*
5	D	Inorganic 2 b	KU	87	32	5	3	5	87*
6	B	Inorganic 1 b	KU	90	28	3	90*	7	0
7	C	Inorganic 1 d	KU	82	24	5	3	82*	10
8	A	Inorganic 3	KU	70	24	70*	5	20	4
9	A	Inorganic 3	KU	75	33	75*	4	15	5
10	C	Inorganic 4 a	KU	82	22	13	4	82*	1
11	D	Inorganic 4 b	KU	83	23	12	2	3	83*
12	B	Physical 1 a	Skills	46	12	37	46*	10	7
13	A	Physical 3 a	KU	71	26	71*	11	11	7
14	B	Physical 3 b	KU	74	32	9	74*	13	4
15	B	Organic 1 c	KU	89	24	1	89*	8	1
16	D	Organic 2 c	KU	88	36	5	5	2	88*
17	A	Organic 2 d	Skills	66	26	66*	27	5	1
18	B	Organic 3 d	KU	95	30	1	95*	3	1
19	C	Organic 3 d	KU	93	29	2	2	93*	4
20	B	Organic 3 g	KU	79	30	13	79*	4	3
21	C	Organic 3 g	KU	71	30	16	10	71*	3
22	D	Organic 3 k	KU	55	18	26	5	14	55*
23	B	Organic 3 l	KU	63	30	5	63*	8	23
24	A	Organic 3 l	KU	90	26	90*	3	4	3
25	A	Organic 3 n/i	KU	89	29	89*	8	2	1
26	D	Organic 5 b	KU	79	35	5	8	8	79*
27	C	Organic 5 c	KU	80	33	16	2	80*	2
28	D	Organic 5 b	Skills	49	12	18	10	23	49*
29	A	Organic 5 c	Skills	90	34	90*	5	2	3
30	A	Organic 6 b	Skills	82	21	82*	12	4	2

Chemistry (Revised) Advanced Higher (Objective Test) 2015

Item Label	Item nr.	Weight	Key	P- and A- values						O/D	Mis-#	Max	Mean	P	Weighted			Rit	Rlr	AR
				A	B	C	D	E	F						Sd	RSK	Rit			
1	1	1	C	12	2	85*	1			0	0	1	0.85	85	0.36	0.36	43	37	78	
2	2	1	D	3	2	0	94*			0	0	1	0.94	94	0.23	0.23	24	19	78	
3	3	1	D	4	2	1	94*			0	0	1	0.94	94	0.24	0.24	12	7	79	
4	4	1	B	8	75*	9				0	1	1	0.75	75	0.43	0.43	45	37	78	
5	5	1	B	2	84*	7				0	1	1	0.84	84	0.36	0.36	29	22	78	
6	6	1	B	4	61*	31				0	0	1	0.61	61	0.49	0.49	50	42	77	
7	7	1	C	15	13	66*	6			1	2	1	0.66	66	0.48	0.48	42	33	78	
8	8	1	C	20	6	65*	10			0	0	1	0.65	65	0.48	0.48	44	35	78	
9	9	1	A	62*	5	19	12			1	3	1	0.62	62	0.48	0.48	28	18	79	
10	10	1	C	19	17	57*	7			0	0	1	0.57	57	0.49	0.49	23	13	79	
11	11	1	C	1	16	82*	1			0	0	1	0.82	82	0.39	0.39	36	29	78	
12	12	1	C	1	91*	5	3			0	1	1	0.91	91	0.29	0.29	31	25	78	
13	13	1	B	83*	3	1	13			0	1	1	0.83	83	0.37	0.37	40	34	78	
14	14	1	D	7	2	12	79*			0	1	1	0.79	79	0.41	0.41	44	37	78	
15	15	1	A	48*	8	12	32			0	1	1	0.48	48	0.50	0.50	56	48	77	
16	16	1	B	5	83*	1	11			0	0	1	0.83	83	0.37	0.37	35	28	78	
17	17	1	D	10	15	22	52*			0	1	1	0.52	52	0.50	0.50	42	33	78	
18	18	1	A	60*	32	2	5			0	1	1	0.60	60	0.49	0.49	28	19	79	
19	19	1	C	4	10	60*	26			0	1	1	0.60	60	0.49	0.49	28	18	79	
20	20	1	C	17	16	53*	14			0	0	1	0.53	53	0.50	0.50	37	28	78	
21	21	1	B	7	75*	10	7			0	0	1	0.75	75	0.43	0.43	41	33	78	
22	22	1	A	79*	1	6	14			0	0	1	0.79	79	0.41	0.41	32	24	78	
23	23	1	A	85*	2	3	9			0	0	1	0.85	85	0.36	0.36	45	38	78	
24	24	1	B	12	75*	5	6			1	3	1	0.75	75	0.43	0.43	38	30	78	
25	25	1	D	2	6	14	78*			0	0	1	0.78	78	0.41	0.41	32	24	78	
26	26	1	A	72*	15	8	5			0	1	1	0.72	72	0.45	0.45	56	49	77	
27	27	1	B	19	57*	15	8			0	0	1	0.57	57	0.49	0.49	48	39	77	
28	28	1	D	8	5	5	82*			0	0	1	0.82	82	0.38	0.38	26	19	78	
29	29	1	D	45	21	19	15*			0	1	1	0.15	15	0.36	0.36	22	14	79	
30	30	1	D	7	7	20	65*			1	4	1	0.65	65	0.48	0.48	47	39	77	