



Chemistry (Revised) Higher 2012

Section A

Number of persons in test : 240
 Average test score : 21.04
 Average facility value : 70.13
 Reliability : 0.73

Item	Key	Content Area	Ability	Fac	Disc	% Choosing option			
						A	B	C	D
1	C	PPP 1 (e)	KU	90	16	4	1	90*	5
2	B	PPP 1 (b)	KU	78	33	8	78*	3	12
3	B	PPP 1 (b)	KU	90	24	2	90*	6	3
4	C	PPP 1 (d)	KU	76	32	2	5	76*	17
5	D	PPP 1 (f)	KU	36	32	14	10	40	36*
6	D	PPP 2 (e)	KU	83	27	4	12	2	83*
7	C	PPP 2 (f)	KU	60	28	15	11	60*	14
8	C	PPP 3 (b)	KU	57	21	10	25	57*	7
9	D	PPP 3 (d)	KU	43	9	3	49	5	43*
10	A	CC 1 (a)	KU	79	19	79*	5	5	10
11	B	CC 3 (d)	Skills	78	38	10	78*	4	8
12	D	CC 4 (a)	KU	84	24	10	5	1	84*
13	B	CC 4 (b)	KU	83	10	5	83*	2	9
14	C	CC 5 (c)	KU	96	10	1	3	96*	0
15	B	CC 5 (d)	Skills	78	31	10	78*	7	5
16	A	CC 6 (a)	Skills	55	32	55*	22	18	4
17	B	CC 7 (b)	KU	98	25	2	98*	0	0
18	D	CC 7 (b)	KU	92	35	5	1	2	92*
19	A	CC 9 (b)	KU	75	13	75*	7	8	9
20	A	PtoP 1 (b)	Skills	58	38	58*	18	16	8
21	B	PtoP 1 (d)	KU	69	1	19	69*	10	2
22	D	PtoP 1 (e)	KU	82	26	2	14	3	82*
23	C	PtoP 1 (g)	Skills	58	30	23	3	58*	15
24	B	PtoP 2 (b)	KU	78	25	5	78*	10	8
25	D	PtoP 2 (c)	KU	78	42	8	2	12	78*
26	A	PtoP 3 (a)	Skills	36	38	36*	37	10	15
27	A	PtoP 3 (b)	Skills	49	30	49*	8	30	10
28	D	PtoP 3 (d)	KU	54	45	18	5	23	54*
29	A	PtoP 4 (a)	KU	23	-13	23*	72	3	2
30	C	RC	Skills	88	20	5	4	88*	2



Chemistry (Revised) Higher 2013

Section A

Number of persons in test: 649
 Average test score: 22.33
 Average facility value: 74.44
 Reliability: 0.81

Item	Key	Content Area	Abilities	Fac	Disc	% Choosing Option			
						A	B	C	D
1	B	PPP 1(d)	KU	88	31	6	88*	4	2
2	D	PPP 1(b)	KU	76	43	9	5	10	76*
3	C	PPP 1(c)	KU	71	32	7	11	71*	10
4	C	PPP 1(e)	KU	49	37	6	37	49*	8
5	D	PPP 2(b)	KU	76	29	3	11	9	76*
6	D	PPP 2(e)	KU	58	35	13	2	27	58*
7	A	PPP 3(a)	KU	84	30	84*	2	14	1
8	C	CC 1(a)	KU	85	34	5	7	85*	3
9	D	CC 2(a)	KU	87	38	6	3	4	87*
10	B	CC 3(a)	KU	84	29	1	84*	11	3
11	A	CC 3(b)	KU	86	32	86*	6	6	2
12	C	CC 4(b)	KU	91	28	0	1	91*	8
13	D	CC 5(d)	KU	65	44	7	21	5	65*
14	C	CC 6(a)	KU	80	38	5	6	80*	9
15	A	CC 6(b)	KU	93	29	93*	2	2	4
16	C	CC 7(a)	KU	76	43	11	7	76*	5
17	B	CC 7(b)	KU	70	43	6	70*	17	6
18	C	CC 8(a)	KU	61	28	10	13	61*	16
19	B	CC 9(b)	KU	88	23	9	88*	2	1
20	A	PtoP 1(b)	KU	58	39	58*	14	16	10
21	A	PtoP 1(b)	KU	76	24	76*	14	8	2
22	D	PtoP 1(d)	KU	91	25	5	2	3	91*
23	C	PtoP 1(e)	KU	67	38	19	6	67*	8
24	B	PtoP 1(f)	KU	53	25	15	53*	12	20
25	A	PtoP 2(a)	KU	68	29	68*	6	9	17
26	B	PtoP 2(b)	KU	57	30	33	57*	8	2
27	A	PtoP 3(b)	KU	77	46	77*	15	4	4
28	A	PtoP 3(c)	KU	78	31	78*	8	8	6
29	B	RC	Skills	53	9	0	53*	36	11
30	D	RC	Skills	85	19	4	2	9	85*



Chemistry (Revised) Higher 2014

Section A

Number of persons in test: 703
 Average test score: 19.16
 Average facility value: 63.85
 Reliability: 0.78

Item	Key	Content Area	Ability	Fac	Disc	% Choosing Option			
						A	B	C	D
1	B	PPP 1 c	KU	75	23	6	75*	8	11
2	C	PPP 1 c / 2 b / 2 e	KU	90	27	1	4	90*	5
3	A	PPP 1 f	KU	67	19	67*	6	7	20
4	B	PPP 2 b	KU	35	20	45	35*	9	12
5	A	PPP 1 e	KU	87	34	87*	2	3	8
6	A	PPP 2 f	KU	67	47	67*	13	14	6
7	D	PPP 3 a	KU	64	27	12	11	13	64*
8	A	PPP 3 a	KU	46	30	46*	19	16	18
9	B	CC 3 a	KU	84	35	4	84*	6	6
10	C	CC 3 c	KU	59	19	36	2	59*	3
11	D	CC 4 a / 7 b	KU	73	35	13	5	9	73*
12	B	CC 7 a	KU	84	36	6	84*	3	6
13	C	CC 6 b	KU	65	20	3	20	65*	10
14	D	CC 6 a	KU	62	32	10	6	22	62*
15	D	CC 7 b	KU	74	44	5	1	20	74*
16	B	CC 8 b	KU	84	30	3	84*	10	3
17	D	CC 8 c	KU	32	15	12	13	43	32*
18	B	CC 9 b	KU	76	20	19	76*	4	2
19	B	PP 1 b	KU	58	39	8	58*	16	18
20	A	PP 1 d	KU	68	17	68*	11	16	5
21	C	PP 1 d	KU	59	30	9	12	59*	20
22	A	PP 2 a	KU	59	22	59*	28	8	5
23	A	PP 2 c	KU	38	37	38*	14	32	16
24	C	PP 2 d	Skills	68	35	10	15	68*	7
25	C	PP 3 a	KU	50	42	14	27	50*	8
26	C	PP 3 b	KU	90	22	4	3	90*	3
27	B	PP 3 c	KU	67	31	4	67*	14	15
28	D	PP 4 a	KU	39	31	38	8	15	39*
29	D	RC	Skills	48	11	6	39	7	48*
30	C	RC	Skills	48	38	25	10	48*	16

Chemistry (Revised) Higher (Objective Test) 2015

Item Label	Item nr.	Weight	Key	P- and A-values						O/D	Mis- singl	Max	Mean	P	Weighted			Rit	Rir	AR
				A	B	C	D	E	F						Sd	RSK				
1	1	1	D	5	4	1	90*			0	1	1	0.90	90	0.31	0.31	24	17	75	
2	2	1	A	85*	5	6	4			0	0	1	0.85	85	0.36	0.36	36	28	74	
3	3	1	C	2	1	91*	5			0	0	1	0.91	91	0.29	0.29	15	9	75	
4	4	1	B	6	86*	3	4			0	1	1	0.86	86	0.35	0.35	32	24	75	
5	5	1	A	78*	12	5	5			0	0	1	0.78	78	0.42	0.42	31	22	75	
6	6	1	C	20	19	46*	14			0	2	1	0.46	46	0.50	0.50	42	32	74	
7	7	1	C	25	11	25*	39			0	2	1	0.25	25	0.43	0.43	35	25	75	
8	8	1	D	0	2	2	96*			0	0	1	0.96	96	0.20	0.20	14	9	75	
9	9	1	A	33*	10	52	4			1	5	1	0.33	33	0.47	0.47	40	31	74	
10	10	1	D	34	3	3	60*			1	3	1	0.60	60	0.49	0.49	25	14	75	
11	11	1	C	2	10	77*	11			0	0	1	0.77	77	0.42	0.42	44	35	74	
12	12	1	C	2	63*	32	2			0	0	1	0.63	63	0.48	0.48	36	26	75	
13	13	1	B	2	2	89*	7			0	0	1	0.89	89	0.32	0.32	37	30	74	
14	14	1	D	5	21	2	72*			0	1	1	0.72	72	0.45	0.45	44	35	74	
15	15	1	A	92*	2	2	3			0	0	1	0.92	92	0.27	0.27	29	23	75	
16	16	1	B	5	81*	8	5			0	2	1	0.81	81	0.39	0.39	39	31	74	
17	17	1	A	64*	3	10	22			0	0	1	0.64	64	0.48	0.48	36	26	75	
18	18	1	B	2	92*	1	4			0	0	1	0.92	92	0.27	0.27	31	25	75	
19	19	1	A	80*	8	10	2			0	0	1	0.80	80	0.40	0.40	38	30	74	
20	20	1	C	5	4	80*	11			0	0	1	0.80	80	0.40	0.40	45	38	74	
21	21	1	A	69*	23	2	5			0	0	1	0.69	69	0.46	0.46	43	33	74	
22	22	1	D	12	6	9	73*			0	1	1	0.73	73	0.44	0.44	44	35	74	
23	23	1	A	88*	8	2	2			0	0	1	0.88	88	0.32	0.32	28	21	75	
24	24	1	B	6	84*	6	4			0	1	1	0.84	84	0.36	0.36	45	38	74	
25	25	1	C	26	21	33*	19			1	4	1	0.33	33	0.47	0.47	37	27	75	
26	26	1	D	14	11	21	54*			1	3	1	0.54	54	0.50	0.50	29	17	75	
27	27	1	B	11	76*	7	5			0	0	1	0.76	76	0.43	0.43	36	27	74	
28	28	1	C	9	8	67*	16			0	2	1	0.67	67	0.47	0.47	46	37	74	
29	29	1	B	65	28*	6	1			0	0	1	0.28	28	0.45	0.45	26	16	75	
30	30	1	D	26	8	21	46*			0	0	1	0.46	46	0.50	0.50	35	24	75	