

1NT 1 2002

Scottish Qualifications Authority

# Intermediate 1 Chemistry - 2002 Examination

Paper 1A
Statistical Data from Sample of Candidates

				2					
	Syllabus			Pe	ercent	age (	Choosi	ng O	ption
Item	Section	Ability	Facility	r	A	В	C	D .	Omit
1	2c	PS	0.63	0.16	20	63*	б	11	1
2	1	KU	0.90	0.15	90*	2	2	5	0
3	1	KU -	0.34	0.33	30	20	16	34*	0
4	2c	PS	0.86	0.21	0	5	8	86*	0
5	1	KU	0.40	0.27	15	17	40*	27	0
6	1	KU	0.48	0.03	4	48*	10	37	ō
7	1	KU	0.29	0.04	8	29*	33	28	1
8	2b	PS	0.66	0.18	66*	12	12	11	0
9	2	KU	0.29	0.19	29*	14	47	9	ō
10	2	KU	0.84	0.20	5	.84*	4	6	1
11	. 2	KU	0.54	-0.02	3	28	54*	15	0
12	2	KU	0.46	0.04	35	46*	12	7	0
13	2	KU	0.40	0.20	8	26	40*	24	2
14	2	KU	0.89	0.19	3	4	4	89*	0
15	2c	PS	0.34	0.07	34*	6	40	20	1
16	3	KU	0.60	0.20	15	60*	11	13	0
17	2c	PS	0.67	0.17	20	6	67*	6	Ó
18	3	KU	0.77	0.28	77*	16		5	o
19	2b	PS	0.29	-0.03	8	52	29*	11	. 0
20	3	KU	0.40	0.07	<b>2</b> 2	11	26	40*	1



Scottish Qualifications Authority

# Intermediate 1 Chemistry - 2003 Examination

Paper 1A
Statistical Data from Sample of Candidates

					Percen	tare	Choos	ina	Ontion
	Syllabus				Lercen	Lage	CHOOS	THA	Obcron
Item	Section	Ability	Facility	r	A	В	С	D	Omit
1	1ai	KU	0.38	0.35	37	6	19	38*	1
2	laiii	KU	0.56	0.30	28	8	7	56*	0
3	lbi	KU	0.69	0.28	23	1	69*	7	1
4	1bii	KU	0.64	0.17	3	24	8	64*	1
5	1ci	KU	0.61	0.09	18	61*	10	11	1
6	2ai	KU	0.52	0.23	52*	8	36	3	1
7	2ai	PS	0.89	0.17	2	89*	4	4	1
8	2aii	PS	0.68	0.21	22	6	68*	4	0
9	1bii	KU	0.66	0.38	66*	17	8	8	1
10	2ci	KU	0.70	0.26	4	70*	19	7	0
11	2civ	PS	0.70	0.19	70*	5	5	19	1
12	2cv	KU	0.32	0.09	32*	3	1.3	- 51	1
13	2diii	PS	0.61	0.24	12	61*	11	15	0
14	3ci	KU	0.81	0.18	5	7	6	81*	1
15	3cii	KU	0.42	0.37	12	35	11	42*	0
16	3civ/v	PS	0.50	0.40	22	50*	1.8	9	0
17	3c	PS	0.74	0.16	2	10	74*	14	0
18	3cv	PS	0.64	0.36	14	1.1	64*	10	0
19	3cv	KU	0.31	0.42	29	31	9	31*	0
20	3di	KU	0.50	0.22	50*	29	7	13	0



Scottish Qualifications Authority

# Intermediate 1 Chemistry - 2004 Examination

Section A
Statistical Data from Sample of Candidates

	Syllabus				Pe	rcent	age C	hoosi	ng Option
Item	Section	Ability	Facility	r	A	В	C	D	Omit
1	1ai	KU	0.61	0.35	61*	7	19	11	2
2	1ai	PS	0.69	0.31	3	5	69*	21	2
3	laiii	KU	0.61	0.25	7	11	21	61*	1
4	1aii	KU	0.34	0.45	34*	2	17	45	3
5	ldi	PS	0.53	0.47	37	53*	5	4	0
6	1cii	PS	0.79	0.33	5	8	7	79*	1
7	1di -	PS	0.30	0.19	30*	36	29	4	1
8	1diii	KU	0.65	0.34	10	20	65*	4	1
9	2ai	KU	0.60	0.24	14	60*	20	6	0
10	2biii	KU	0.88	0.20	5	2	4	88*	1
11	2bi	KU	0.43	0.20	43*	5	13	39	0
12	2ci	PS	0.58	0.39	10	24	58*	9	0
13	2cii	KU	0.32	0.32	25	23	20	32*	1
14	2dii	KU	0.42	0.38	42	42*	8	7	1
15	3ai	PS	0.51	0.42	5	7	37	51*	0
16	3 <b>d</b> i	PS	0.94	0.09	0	3	94*	2	0
17	3aiii	KU	0.71	0.28	6	71*	14	8	0
18	3ciii	KU	0.79	0.16	2	13	79*	5	0
19	3ci	PS	0.87	0.29	3	87*	5	5	0
20	1aiii	PS	0.61	0.19	61*	17	12	10	0



# Section A

Number of persons in test: 1547
Average test score : 10.14
Average facility value : 50.71
Reliability : 0.55

<b>.</b> .	Syllabus				% Ch	oosing	a Opti	i on
 Item	Section	Ability	Fac	Disc	A	В	C	D
1	la ii	KU	34	22	4	 26		
2	la iii	PS	59	20	7		. 34*	35
3	lb ii	KU	56	10	1	59*	15	19
4	lc i	KU	60		56*	8	31	4
5	1c iii	KU		10	14	60*	11	15
6	ld i	KU	34	28	31	32	3	34*
7	2a i		75	28	75*	6	2	16
		KU	43	17	16	17	23	43*
8	2a i	PS	69	8	69*	22	4	5
9	2a iii	PS	34	13	44	11	34*	11
10	2a iv	PS	18	10	6	21	55	18*
11	2b ii	KU	56	34	23	10		
12	2c i	KU	56	17	4	7	11	56*
13	2c iii	KU	42	13			56*	32
14	2c iv	KU	44		18	7	42*	33
15	2d i	PS		8	32	44*	12	12
16	3a i		63	26	63*	7	20	10
17		KU	49	23	14	16	49*	21
	3c iii	PS	34	4	39	34*	15	12
18	3c vi	KU	87	15	2	87*	9	2
19	3c v	KU	49	17	20	19	11	49*
20	3d i	KU	52	27	52*	15	14	19
 							<u> </u>	4.5

2006



Chemistry Intermediate 1 2006

## Section A

Number of persons in test : 1881
Average test score : 12.26
Average facility value : 61.29
Reliability : 0.68

					% Ch	oosin	g Opt	ion
Item	Content Area	Ability	Fac	Disc	A	В	C	D
1	1 (b) (i)	KU	64	33	64*	3	15	17
2	1 (b) (ii)	PS	82	29	11	6	82*	1
3	1 (c) (i)	KU	68	31	20	4	68*	7
4	1 (c) (ii)	PS	80	26	8	3	7	*08
5	1 (d) (i)	KU	57	7	23	57*	8	11
6	1 (d) (i)	KU	76	36	3	6	76*	13
7	1 (d) (iii)	PS	77	32	10	77*	9	3
8	1 (d) (iii)	KU	25	29	25*	6	11	56
9	2 (a) (i)	KU	34	-7	11	22	31	34*
10	2 (a) (i)	KU	86	29	9	1	3	86*
11	2 (a) (iii)	KU	61	29	61*	24	4	10
12	2 (c) (ii)	KU	64	31	2	64*	15	18
13	2 (c) (iv)	PS	41	18	41*	33	15	10
14	2 (d) (ii)	KU	58	39	8	15	58*	18
15	3 (b) (ii)	KU	68	23	22	7	2	68*
16	3 (c) (i)	KU	70	27	6	15	7	70*
17	3 (c) (i)	KU	38	21	4	46	38*	10
18	3 (c) (iv)	PS	53	30	16	53*	24	5
19	3 (c) (iv)/(v)	PS	42	29	42*	30	18	7
20	3 (d) (ii)	KU	82	25	j .2	82*	9	6



#### Section A

Number of persons in test : 2417
Average test score : 12.53
Average facility value : 62.67
Reliability : 0.69

							1	% ch	oosin	g opt	ion
Item	кеу	Content	Area	Ability	Fac	Disc	Ì	A	В	C	D
1	C	1 (c)	(ii)	KÜ	47	34	 	14	16	47*	23
2	В	1 (c)	(iii)	PS	27	25		12	27*	43	18
3	В	1 (a)	(ii)	KU	76	28		12	76*	5	6
4	A	1 (b)	(ii)	₽S	80	29		80*	6	6	8
5	D	1 (b)	(iii)	KU	80	25	Ì	5	6	9	80*
6	C	1 (a)	(i)	PS	43	19	i	10	16	43*	31
7	A	2 (b)	(ii)	KU	75	33	Ì	75*	13	7	5
8	D	2 (c)	(i)	KU	75	27	Ì	5	5	15	75*
9	В	2 (c)	(i)	KU	85	28	Ì	2	85*	6	8
10	Α	2 (c)	(ii)	KU	48	29	Ì	48*	7	6	39
11	В	2 (a)	(ii)	PS	33	11	Ì	14	33*	23	29
12	D	2 (d)	(ii)	KU	73	30	ĺ	17	3	6	73*
13	В	2 (d)	(i)	KU	74	23	ĺ	4	74*	9	12
14	A	2 (d)	(iii)	PS	81	30	1	81*	7	9	2
15	D	3 (b)	(i)	KU	62	30	Ì	16	14	8	62*
16	C	3 (c)	(iii)	KU	81	24	İ	2	14	81*	3
17	В	3 (c)	(v)	PS	28	19	Ì	11	28*	16	45
18	D	3 (c)	(v)	PS	44	12	İ	32	9	14	44*
19	A	3 (c)	(vi)	KU	54	35	İ	54*	5	25	15
20	C	3 (c)	(vi)	KU	86	35	ĺ	1	3	86*	9



#### Section A

Number of persons in test : 2675
Average test score : 11.03
Average facility value : 55.15
Reliability : 0.62

							1	% Ch	oosin	g Opt	ion
Item	Key	Conte	nt Area	Abilit	y Fac	Disc	!	Α	В	С	D
1.	С	1 (a)	(iv)	KU	85	21		9	3	85*	2
2	A	1 (b)	(i)	KU	. 59	14	1	59*	3	11	26
3	D	1 (a)	(ii)	PS	41	19	1	14	13	31	41*
4	В	1 (b)	(ii)	KU	67	12	- {	7	67*	3	23
5	C	1 (b)	(ii)	PS	47	26	+	15	24	47*	13
6	A	1 (d)	(iii)	PS	35	33	}	35*	10	14	40
7	A	1 (d)	(iii)	KU	11	12	-	11*	9	52	28
8	D	2 (a)	(i)	KU	32	20	}	33	8	26	32*
9	В	2 (a)	(ii)	KU	65	26	}	12	65*	14	10
10	D	2 (a)	(iii)	KU	86	28	!	2	6	6	86*
11	A	2 (a)	(iv)	KU	58	15	;	58*	5	31	5
12	С	2 (b)	(i)	KU	65	30	}	23	4	65*	9
13	A	2 (c)	(iv)	KU	60	29	1	60*	24	4	12
14	С	2 (d)	(i)	KU	62	18	1	5	1	62*	32
15	В	3 (b)	(i)	KU	62	18	1	15	62*	13	9
16	D	3 (b)	(ii)	KU	52	32	1	19	12	17	52*
17	В	3 (a)	(ii)	KU	41	29	1	20	41*	23	16
18	D	3 (d)	(i)	PS	45	22	i	8	30	17	45*
19	С	3 (d)	(i)	PS	34	15	i	14	41	34*	11
20	A	3 (d)	(i)	PS	97	7	İ	97*	2	1	1



#### Section A

Number of persons in test : 3010
Average test score : 12.52
Average facility value : 62.59
Reliability : 0.64

						ļ	용 Ch	oosin	g Opt	ion
Iten	і Кеу	Content	Area	Ability	Fac	Disc	A	В	C	D
1	D	1 (a) (i	.)	KU	73	26	5	4	17	73*
2	A	1 (a) (i	.i)	KU	41	36	41*	3	26	29
3	С	1 (a) (i	.i)	KU	74	35	12	6	74*	7
4	В	1 (c) (i	.)	KU	64	10	13	64*	6	17
5	A	1 (c) (i	.i)	KU	39	28	39*	23	24	14
6	С	1 (c) (i	.ii)	KU	49	24	8	16	49*	27
7	Α	2 (a) (i	ii)	KU	92	18	92*	6	2	1
8	C	2 (b) (i	.)	KU	60	16	8	22	60*	10
9	В	2 (b) (i	.i)	KU	78	31	6	78*	12	4
10	D	2 (c) (i	.ii)	KU	69	20	21	5	5	69*
11	Α	2 (d) (i	.)	PS	93	16	93*	3	3	1
12	D	2 (d) (i	.ii)	PS	53	28	6	23	18	53*
13	В	2 (d) (i	.v)	KU	47	19	19	47*	13	21
14	D	3 (a) (i	.)	KU	84	18	2	12	3	84*
15	A	3 (a) (i	.ii)	KU	86	26	86*	8	5	2
16	С	3 (b) (i	.i)	PS	47	21	9	16	47*	28
17	В	3 (c) (i	.i)	KU	39	20	20	39*	25	16
18	C	3 (c) (v	ri)	KU	64	29	11	3	64*	21
19	A	3 (d) (i	.)	KU	27	22	27*	52	13	7
20	D	3 (d) (i	.i)	KU	73	20	2	10	14	73*



#### Section A

Number of persons in test : 2,857
Average test score : 12.98
Average facility value : 64.89
Reliability : 0.53

					1	% Ch	oosin	g Opt	ion
Item Ke	y Content Are	a Ability	Fac	Disc		A	В	С	D
1 B	1 (a) (i)	PS	74	21	!	10	74*	5 ·	10
2 D	1 (b) (ii)	KU	83	26	1	6	2	8	83*
3 C	1 (c) (iii)	PS	55	26		7	17	55*	21
4 A	1 (d) (ii)	KU	41	13	1	41*	28	6	25
5 D	1 (d) (i)	KU	77	28	1	16	2	5	77*
6 A	2 (a) (iv)	PS	72	13	1	72*	8	12	6
7 D	2 (b) (i)	PS	59	16		24	8	9	59*
8 A	2 (b) (i)	PS	67	26		67*	4	5	23
9 D	2 (b) (ii)	PS	90	14	F	0	8	1	90*
10 B	2 (c) (iii)	KU	63	3	1	25	63*	8	5
11 B	2 (c) (v)	PS	17	-1	- 1	11	17*	6	66
12 A	2 (d) (i)	PS	48	6	1	48*	18	4	30
13 C	2 (d) (ii)	PS	81	24		2	14	81*	2
14 B	3 (a) (i)	KU	77	21	1	6	77*	4	13
15 B	3 (a) (iii)	KU	66	28	1	10	66*	13	11
16 C	3 (b) (ii)	KU	84	25	1	9	2	84*	5
17 C	3 (c)	PS	66	11	ŀ	17	16	66*	1
18 A	3 (c) (i)	KU	76	27		76*	2	21	1
19 C	3 (d) (i)	PS	75	3	1	17	2	75*	6
20 B	3 (d)	PS	28	7	ı	15	28*	34	23



#### Section A

Number of persons in test : 2,892
Average test score : 12.45
Average facility value : 62.26
Reliability : 0.58

						% Ch	oosin	g opt	ion
Item	n Key	Content Area	Ability	Fac	Disc	A	В	С	D
1	D	1 (a) (iv)	KU	95	13	<b></b>	1	1	95*
2	В	1 (c) (iv)	KU	65	8	16	65*	13	6
3	D	1 (c) (i)	PS	17	12	29	29	25	17*
4	С	1 (d) (i)	PS	62	25	16	6	62*	26
5	С	1 (d) (ii)	KU	41	7	15	16	41*	29
6	A	2 (a)	KU	87	19	87*	3	4	7
7	C	2 (a) (i)	KU	70	19	10	9	70*	11
8	A	2 (b) (i)	KU	43	20	43*	7	15	36
9	D	2 (b) (i)	KU	63	30	10	8	18	63*
10	В	2 (b) (ii)	KU	84	22	5	84*	8	2
11	С	2 (d) (i)	PS	71	25	16	6	71*	8
12	A	2 (a) (ii)	KU	62	29	62*	24	6	7
13	С	2 (d) (ii)	KU	80	18	] 3	1	80*	15
14	В	3 (b) (ii)	PS	45	19	40	45*	11	3
15	В	3 (c) (i)	PS	88	14	4	88*	5	3
16	D	3 (c) (i)	KU	64	20	1 7	8	21	64*
17	A	3 (c) (iii)	KU	40	15	1 40*	19	10	30
18	D	3 (c) (vi)	KU	28	21	6	55	12	28*
19	C	3 (d) (i)	KU	55	27	8	22	55*	15
20	Α	3 (d) (ii)	KU	87	25	87*	6	4	3



#### Section A

Number of persons in test : 2,999
Average test score : 11.93
Average facility value : 59.64
Reliability : 0.59

						% Ch	oosin	g opt	ion
Iter	n Key	Content Area	Ability	Fac	Disc	A	В	C	D
1	D	1 (b) (i)	KU	76	19	16	2	5	76*
2	A	1 (b) (ii)	KU	60	21	60*	7	32	1
3	В	1 (c) (i)	KU	54	2	26	54*	10	10
4	C	1 (c) (i)	PS	61	17	9	9	61*	20
5	D	1 (c) (iii)	KU	43	19	42	8	7	43*
6	В	1 (d) (i)	KU	81	24	8	81*	9	3
7	С	2 (b) (i)	PS	51	13	43	3	51*	3
8	D	2 (b) (i)	KU	67	26	12	6	14	67*
9	A	2 (b) (ii)	KU	79	28	79*	3	13	5
10	В	2 (b) (ii)	KU	62	11	8	62*	4	25
11	A	2 (c) (i)	KU	49	31	49*	7	37	6
12	D	2 (c) (v)	PS	62	9	23	6	10	62*
13	A	2 (d) (iv)	KU	30	27	30*	32	27	10
14	C	2 (c) (i)	PS	55	25	12	26	55*	8
15	В	3 (b) (i)	KU	46	30	10	46*	11	33
16	В	3 (b) (ii)	KU	37	32	23	37*	24	16
17	D	3 (c)	PS	79	17	7	3	11	79*
18	С	3 (c) (iii)	PS	73	17	17	6	73*	4
19	C	3 (d)	PS	46	15	27	13	46*	14
20	A	3 (d) (ii)	KU	82	21	82*	1.1	2	5



Section A

Number of persons in test: 2,943 Average test score: 12.52 Average facility value: 62.61 Reliability: 0.67

							용	Choosin	ng Optic	n
Item	Key	Content Area	Abilities	Fac	Disc	1	A	В	C	D
1	D	1 a	KU	<b></b>	21		4	14	<del></del>	65*
2	A	1 a	PS	55	24	i	55*	28	4	13
3	A	1 b	KU	57	24	ì	57*	4	20	19
4	С	1 b	PS	62	28	i	27	6	62*	4
5	D	1 c	PS	38	17	i	20	29	13	38*
6	В	1 c	PS	36	33	i	8	36*	41	14
7	D	1 d	PS	69	22	i	8	11	11	69*
8	C	1 d	KU	62	22	i	15	19	62*	4
9	C	2 a	PS	67	19	i	22	7	67*	3
10	В	2 a	KU	75	25	i	11	75*	4	10
11	В	2 b	PS	90	22	ì	7	90*	2	1
12	D	2 c	KU	72	25	i	7	6	14	72*
13	A	2 c	KU	51	26	i	51*	30	13	6
14	A	2 c	KU	45	16	i	45*	6	13	37
15	С	2 d	PS	54	32	i	22	11	54*	12
16	В	3 a	KU	86	26	i	1	86*	2	10
17	C	3 a	KU	61	37	i	28	6	61*	4
18	D	3 a	KU	75	22	i	9	8	6	75*
19	В	3 a	KU	62	27	i	15	62*	10	12
20	A	3 b	PS	69	27	i	69*	9	6	15



Section A

Number of persons in test: 266
Average test score: 13.38
Average facility value: 66.88
Reliability: 0.69

						١	% Ch	noosin	ıg Opt	ion
Item	Key	Content Area	Ability	Fac	Disc		A	В	С	D
1	D	1 b i	KU	80	37	 	16	0	4	80*
2	A	1 a ii	PS	65	33	i	65*	14	9	12
3	D	1 b ii	PS	53	32	i	8	24	15	53*
4	C	1 b ii	PS	29	15	i	24	16	29*	30
5	D	1 c ii	PS	87	27	j	3	6	4	87*
6	В	1 c iii	KU	83	42	ĺ	4	83*	10	3
7	A	1 d i	KU	91	37	-	91*	3	1	5
8	В	1 d ii	KU	43	25		12	43*	38	7
9	С	1 d iii	KU	82	28	ĺ	4	8	82*	5
10	D	2 a iv	KU	77	17		8	6	9	77*
11	С	2 b ii	KU	87	33	1	3	7	87*	3
12	D	2 c ii	KU	71	31	- 1	8	11	11	71*
13	A	2 c ii	KU	68	25	- [	68*	7	4	20
14	Α	2 c iv	PS	30	10		30*	26	30	14
15	A	2 c iv	PS	62	27		62*	17	12	9
16	D	3 a ii	KU	78	36	1	2	8	12	78*
17	A	3 a iii	KU	86	16	- 1	86*	10	2	3
18	C	3 b ii	KU	60	31	ĺ	24	10	60*	5
19	С	3 d i	PS	38	4	ĺ	5	45	38*	12
20	C	3 d ii	PS	67	38	1	8	7	67*	18

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<sup>90%</sup> Confidence limits for Coefficient Alpha: (-0.87 =< 0.07 =< 0.69)

Estimated Coefficient Alpha if this test had a standard norm length of 40 items: 0.13 (Spearman-Brown)