

Chemistry National 5 (Section 1 - Objective Test) 2017

Response Frequency Table (%)							
Item	Key	A	B	C	D	Missing	Invalid
1	D	1	7	1	91	0.1	0.0
2	C	4	4	90	2	0.0	0.0
3	A	67	19	12	2	0.2	0.0
4	D	13	11	17	60	0.1	0.0
5	A	58	28	8	5	0.2	0.0
6	B	11	72	12	5	0.2	0.0
7	C	2	3	86	9	0.1	0.0
8	B	13	70	9	7	0.5	0.0
9	A	56	20	8	16	0.1	0.0
10	A	85	12	2	1	0.0	0.0
11	D	1	11	4	83	0.1	0.0
12	C	12	4	50	34	0.1	0.0
13	C	9	3	81	8	0.1	0.0
14	B	5	92	2	1	0.0	0.0
15	D	7	10	7	77	0.1	0.0
16	C	6	7	79	8	0.2	0.1
17	A	70	4	9	16	0.1	0.0
18	B	3	95	1	2	0.0	0.0
19	A	64	6	17	12	0.4	0.0
20	C	5	29	40	26	0.1	0.1

Missing:	No responses were selected
Invalid:	More than one response was recorded
<i>Note that all figures are percentages rounded to the nearest whole number</i>	

Chemistry National 5 (Section 1 - Objective Test) 2016

Item Label	Item nr.	Weight	Key	A	B	C	D	E	F	O/D	Mis- singl	Max	Mean	P	Sd	RSK	Rit	Rir	AR
1	1	1	D	9	19	9	62*			0	57	1	0.62	62	0.48	0.48	46	36	78
2	2	1	C	5	13	79*	3			0	69	1	0.79	79	0.41	0.41	37	28	78
3	3	1	D	13	10	29	48*			1	89	1	0.48	48	0.50	0.50	53	43	78
4	4	1	B	7	77*	6	9			0	77	1	0.77	77	0.42	0.42	49	41	78
5	5	1	B	4	78*	10	8			0	73	1	0.78	78	0.42	0.42	29	19	79
6	6	1	C	5	5	80*	10			1	92	1	0.80	80	0.40	0.40	47	39	78
7	7	1	A	45*	51	1	3			0	61	1	0.45	45	0.50	0.50	57	48	77
8	8	1	C	7	5	63*	24			1	105	1	0.63	63	0.48	0.48	49	39	78
9	9	1	B	4	63*	12	20			0	68	1	0.63	63	0.48	0.48	45	35	78
10	10	1	C	6	7	79*	7			0	57	1	0.79	79	0.40	0.40	53	46	78
11	11	1	B	18	75*	4	3			0	60	1	0.75	75	0.43	0.43	42	33	78
12	12	1	B	28	61*	8	3			0	58	1	0.61	61	0.49	0.49	53	44	77
13	13	1	A	49*	37	8	5			1	93	1	0.49	49	0.50	0.50	53	44	77
14	14	1	C	2	3	82*	13			0	62	1	0.82	82	0.38	0.38	42	33	78
15	15	1	D	13	11	12	64*			1	122	1	0.64	64	0.48	0.48	50	41	78
16	16	1	D	19	44	16	20*			1	104	1	0.20	20	0.40	0.40	35	26	79
17	17	1	A	70*	4	14	11			0	65	1	0.70	70	0.46	0.46	38	28	79
18	18	1	A	50*	10	35	5			0	72	1	0.50	50	0.50	0.50	38	26	79
19	19	1	C	35	9	45*	11			1	89	1	0.45	45	0.50	0.50	51	41	78
20	20	1	B	11	50*	15	24			1	115	1	0.50	50	0.50	0.50	27	15	79

SubGroup number : 0
 Number of persons in test : 16968
 Minimum test score : 0
 Average test score : 12.40
 Average P-value : 62.01
 Average Rit : 0.45
 Coefficient Alpha : 0.79

SubTest number : 0
 Number of selected items : 20
 Maximum test score : 20
 Standard deviation : 4.11
 Std. Error of Measurement : 1.88

SE Coeff. Alpha : 0.00

90% Confidence limits for Coefficient Alpha: (0.79 =< 0.79 => 0.79)

Estimated Coefficient Alpha if this test had a standard norm length of 40 items: 0.88 (Spearman-Brown)

Chemistry National 5 (Objective Test) 2015

Item Label	Item nr.	Weight	Key	P- and A-values				F	O/D	singl	Mis-#	Weighted				AR		
				A	B	C	D					E	Max	Mean	P		Sd	RSK
1	1	1	A	92*	3	2	2		0	69	1	0.92	92	0.27	0.27	40	33	75
2	2	1	B	4	88*	4	4		0	77	1	0.88	88	0.33	0.33	37	29	75
3	3	1	D	2	15	16	67*		1	125	1	0.67	67	0.47	0.47	44	33	75
4	4	1	C	3	26	55*	15		0	69	1	0.55	55	0.50	0.50	20	7	77
5	5	1	D	8	8	6	78*		0	71	1	0.78	78	0.41	0.41	46	36	75
6	6	1	C	21	15	51*	11		1	94	1	0.51	51	0.50	0.50	45	33	75
7	7	1	C	27	13	46*	14		1	110	1	0.46	46	0.50	0.50	39	27	75
8	8	1	B	5	90*	4	1		0	64	1	0.90	90	0.30	0.30	44	37	75
9	9	1	A	69*	6	12	11		1	167	1	0.69	69	0.46	0.46	58	49	74
10	10	1	B	21	59*	12	7		1	129	1	0.59	59	0.49	0.49	39	27	75
11	11	1	B	18	46*	18	17		1	127	1	0.46	46	0.50	0.50	47	36	75
12	12	1	C	4	1	88*	7		0	65	1	0.88	88	0.33	0.33	40	32	75
13	13	1	A	81*	6	6	6		0	67	1	0.81	81	0.39	0.39	40	31	75
14	14	1	D	1	9	13	77*		0	67	1	0.77	77	0.42	0.42	54	45	74
15	15	1	C	18	10	67*	5		1	91	1	0.67	67	0.47	0.47	52	42	74
16	16	1	D	7	4	14	76*		0	69	1	0.76	76	0.43	0.43	44	34	75
17	17	1	A	79*	17	1	2		0	64	1	0.79	79	0.41	0.41	49	40	74
18	18	1	A	38*	9	8	44		1	84	1	0.38	38	0.49	0.49	35	23	76
19	19	1	D	22	24	19	33*		1	236	1	0.33	33	0.47	0.47	42	30	75
20	20	1	D	6	20	13	61*		1	91	1	0.61	61	0.49	0.49	43	31	75

Number of persons in test : 16564
 Minimum test score : 0
 Average test score : 13.40
 Average P-value : 67.02
 Average Rit : 0.43
 Coefficient Alpha : 0.76
 GLB : 0.80
 Items used in GLB proc : 20
 Number of selected items : 20
 Maximum test score : 20
 Standard deviation : 3.70
 Std. Error of Measurement : 1.69
 SE Coeff. Alpha : 0.00
 Asymptotic GLB coef : 0.79

90% Confidence limits for Coefficient Alpha: (0.75 =< 0.76 =< 0.76)

Estimated Coefficient Alpha if this test had a standard norm length of 40 items: 0.86 (Spearman-Brown)

Chemistry National 5 (Objective Test) 2014

Item Label	Item nr.	Weight	Key	A	B	C	D	E	F	O/D	singl	Max	Mean	P	Sd	RSK	Rit	Rir	AR
1	1	1	A	91*	7	1	1			0	29	1	0.91	91	0.29	0.29	35	28	75
2	2	1	D	3	7	6	83*			0	59	1	0.83	83	0.37	0.37	40	31	75
3	3	1	A	51*	29	8	11			0	69	1	0.51	51	0.50	0.50	42	29	75
4	4	1	C	2	7	89*	2			0	26	1	0.89	89	0.32	0.32	37	29	75
5	5	1	C	9	4	75*	12			0	30	1	0.75	75	0.44	0.44	53	43	74
6	6	1	A	59*	17	10	14			0	66	1	0.59	59	0.49	0.49	40	27	75
7	7	1	D	7	5	6	82*			0	42	1	0.82	82	0.38	0.38	35	25	75
8	8	1	A	88*	3	2	7			0	31	1	0.88	88	0.32	0.32	43	35	75
9	9	1	C	2	4	87*	7			0	24	1	0.87	87	0.34	0.34	43	35	75
10	10	1	B	1	83*	9	6			0	20	1	0.83	83	0.38	0.38	43	34	75
11	11	1	C	14	3	77*	6			0	41	1	0.77	77	0.42	0.42	44	34	75
12	12	1	B	20	40*	11	27			1	117	1	0.40	40	0.49	0.49	35	23	76
13	13	1	C	2	4	88*	6			0	31	1	0.88	88	0.33	0.33	29	20	75
14	14	1	C	20	14	47*	19			0	40	1	0.47	47	0.50	0.50	39	27	75
15	15	1	A	75*	14	6	6			0	53	1	0.75	75	0.44	0.44	46	35	74
16	16	1	D	7	11	8	73*			0	37	1	0.73	73	0.44	0.44	51	41	74
17	17	1	B	28	55*	10	6			1	93	1	0.55	55	0.50	0.50	44	31	75
18	18	1	B	12	75*	10	3			0	26	1	0.75	75	0.43	0.43	52	43	74
19	19	1	B	27	43*	7	23			0	62	1	0.43	43	0.50	0.50	50	39	74
20	20	1	D	30	19	18	33*			0	40	1	0.33	33	0.47	0.47	44	33	75

Number of persons in test : 14037
 Minimum test score : 0
 Average test score : 13.92
 Average P-value : 69.59
 Average Rit : 0.43
 Coefficient Alpha : 0.76
 GLB : 0.79
 Items used in GLB proc : 20

Number of selected items : 20
 Maximum test score : 20
 Standard deviation : 3.57
 Std. Error of Measurement : 1.65
 SE Coeff. Alpha : 0.00
 Asymptotic GLB coef : 0.78

90% Confidence limits for Coefficient Alpha: (0.75 =< 0.76 =< 0.76)

Estimated Coefficient Alpha if this test had a standard norm length of 40 items: 0.86 (Spearman-Brown)