

**Revised August 2007**

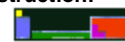
**Comments on 1984 Multiple Choice in APRIL 2008**

**NOTE: On this test in 1984, calculators WERE allowed**

- **Possible Blanks**

Of the 75 multiple choice questions on the AP test, there will be a **few** that are either at the periphery of your knowledge, subtly disguised or perhaps just really difficult. These, if you cannot eliminate **any** answers, should be the ones you choose to leave blank. The following questions from the first 75 (**there were actually 85 questions on this test**) on the 1984 test are in that category.

Explanation	Question & Answer	Comment
Hydrogen fluoride etches glass	<b>Q5</b> <b>Answer: A</b>	Factoid. Probably of little or no use in the future
Silicon can form a number of strong covalent bonds (like C) and form giant structures	<b>Q9</b> <b>Answer: A</b>	Lesson in periodicity, i.e. elements in the same group act and react in similar ways. TOPIC 7
$\text{Cr}_2\text{O}_7^{2-}$ ions are orange	<b>Q10</b> <b>Answer: B</b>	See table in notes for other common colors of transition metal ions. <b>Worthwhile learning as many as possible.</b> TOPIC 10
Organic solvents dissolve non-polar substance like halogen molecules. Water will dissolve polar substances. Colors of Halogens $\text{I}_2$ (purple), $\text{Br}_2$ (orange), $\text{Cl}_2$ (green), $\text{F}_2$ (yellow)	<b>Q35</b> <b>Answer: D</b>	Hard. TOPIC 8 plus general chemical knowledge.



## Revised August 2007

- Question Analysis

TOPIC	Question Numbers	# of questions	Comments
1 Matter & Measurement		0	
2 Atoms, Ions & Nomenclature	1, 2, 19, 30, 38	5	
3 Electronic Configuration	22*, 58*, 66*, 70	4	
4 Stoichiometry	20, 34*, 37, 44, 45, 52, 59, 67, 68, 69, 73, 79	12	
5 Aqueous Solution	65	1	
6 Gases	21, 23, 39, 50, 72, 78, 85*	7	
7 Periodicity	3, 7, 43	3	
8 Bonding	8, 9, 18, 40, 41, 51, 60, 80	8	
9 Thermochemistry	47, 56, 83	3	
10 Transition Metal Basics	10, 24, 31	4	
11 Organic Basics	-	0	
12 Equation Writing	11, 12, 13*, 32, 42, 61, 64, 81*	8	In 1984 the Equation Writing question was not part of the free response and was incorporated into the multiple choice
13 Equilibrium	27, 36, 54, 57, 74, 76	6	
14 Acids & Bases	33, 48, 49, 53, 62, 63, 71, 75	8	
15 Kinetics	25, 26, 28, 82	4	
16 Electrochemistry	4, 14, 15, 16, 17, 29, 46	7	
17 Colligative Properties	55, 84	2	
Miscellaneous (peripheral knowledge)	5, 6, 35, 77	4	5 General Knowledge 6 General Knowledge 35 General Knowledge 77 Organic Isomerism
		85	

13\* could also be considered topic 5  
 22\* could also be considered topic 2 or 8  
 34\* could also be considered topic 5  
 58\* could also be considered topic 10  
 66\* could also be considered topic 10  
 81\* could also be consider topic 10  
 85\* could also be considered topic 4 or 12

## Revised August 2007



### • Scoring Analysis

Calculate your multiple-choice score by awarding one point for each correct answer, and subtracting 0.25 points for each wrong answer. Questions omitted (blanks) are ignored and do not contribute anything to your overall multiple-choice score.

Then, in the first column of the charts below, find the range in which your total multiple-choice score falls. The %'s on that line indicate the proportion of candidates with your multiple-choice score, that ultimately achieved the final AP score shown in the vertical column. The shaded boxes show the two most likely AP scores within any range. It's worth noting that your position within a range is important. For example, if you are at the top of a range you are much more likely to have ultimately achieved the higher AP scores.

The numbers in parenthesis underneath each percentage indicate the approximate multiple-choice score range that may most closely correspond to that percentage and that AP score. It is important to note that this is not a scientific mathematical analysis, rather a guesstimate! In addition, it is important to understand that there is no guarantee that a particular multiple-choice score relates to a particular AP score.

1984 Multiple-choice score related to final AP score (originally out of 85)

Out of 85	1	2	3	4	5
48.00-85.00 (149 possible scores in the range)	0.0%	0.1% (48.00)	1.6% (48.00-48.25)	20.4% (48.50-55.75)	77.9% (56.00-85.00)
38.00-47.75 (40 possible scores in the range)	0.0%	0.3% (38.00)	25.0% (38.25-40.75)	60.4% (41.00-45.75)	14.2% (46.00-47.75)
22.00-37.75 (64 possible scores in the range)	0.9% (22.00)	14.3% (22.25-23.75)	71.4% (24.00-32.75)	13.3% (33.00-37.50)	0.2% (37.75)
13.00-21.75 (36 possible scores in the range)	19.5% (13.00-14.50)	54.0% (14.75-19.00)	26.5% (19.25-21.75)	0.0%	0.0%
0.00-12.75 (52 possible scores in the range)	72.1% (0.00-8.75)	25.4% (9.00-12.25)	2.5% (12.50-12.75)	0.0%	0.0%

1984 Multiple-choice score related to final AP score (adjusted out of 75)

Out of 75	1	2	3	4	5
42.00-75.00 (133 possible scores in the range)	0.0%	0.1% (42.00)	1.6% (42.25-42.50)	20.4% (42.75-48.75)	77.9% (49.00-75.00)
34.00-41.75 (32 possible scores in the range)	0.0%	0.3% (34.00)	25.0% (34.25-35.75)	60.4% (36.00-40.75)	14.2% (41.00-41.75)
19.00-33.75 (60 possible scores in the range)	0.9% (19.00)	14.3% (19.25-20.75)	71.4% (21.00-31.75)	13.3% (32.00-33.50)	0.2% (33.75)
11.00-18.75 (32 possible scores in the range)	19.5% (11.00-12.25)	54.0% (12.50-16.50)	26.5% (16.75-18.75)	0.0%	0.0%
0.00-10.75 (44 possible scores in the range)	72.1% (0.00-7.50)	25.4% (7.75-10.25)	2.5% (10.50-10.75)	0.0%	0.0%