The University of the State of New York

REGENTS HIGH SCHOOL EXAMINATION

PHYSICAL SETTING CHEMISTRY

Wednesday, June 22, 2005 - 1:15 to 4:15 p.m., only

ANSWER BOOKLET

Answer all questions in Part B-2 and Part C. Rec	ord your answers
School	Grade
Teacher	
Student	☐ Male Sex: ☐ Female

Answer all questions in Part B-2 and Part C. Record your answers in this booklet.

Part	Maximum Score	Student's Score
A	33	
B-1	17	
B-2	15	
C	20	
(M Fi	tal Written Test Score [aximum Raw Score: 8] nal Score om conversion chart)	5)
Raters' Rater 1	Initials:	

	Part B–2	For Raters Only
51		51
52	Mg-26 nucleus	52
53		53

[1] [OVER]

		For Raters Only
54	mol	54
55		55
56		
57	Potential Energy ZNO ₂ (g) + 7H ₂ (g) Reaction Coordinate	57
58		58

						For C	Raters Inly
5 9						59	
60						60	
61	Element	Number of Protons	Number of Neutrons	Mass Number	Nuclide		
	С	6	6	12	C-12		
	N	7	9	16	N-16	61	
	Ne	10					
	S	16	16	32	S-32		
62						62	
63						63	
64	$^{16}_{7}\mathrm{N} ightarrow $	+	_			64	

[3]

Total Score for Part B-2

[OVER]

	Part C	For Raters Only
65 Conclusion 1:		
Conclusion 2:		65
66 and 67		
	Heating Curve	
Ć	ξ	66
) atture	67
	emperature (°C)	
1		
	0 1 2 3 4 5 6 7 8 9 10 11 12	
	Time (min)	
68	°C	68

69		For F Or	Raters nly
		69	
70	J	70	
71	mol	71	
72		72	
73			
		73	
74	$\underline{\hspace{1cm}} \text{HNO}_3 + \underline{\hspace{1cm}} \text{Ca(OH)}_2 \rightarrow \underline{\hspace{1cm}} \text{Ca(NO}_3)_2 + \underline{\hspace{1cm}} \text{H}_2 \text{O}$	74	
75		75	
76	M	76	

		For (Raters Only
77	mol	77	
78			
		78	
79			
		79	
00			
80		80	
81			
		81	
82		82	
83		83	
]	

Total Score for Part C