## The University of the State of New York $\label{eq:REGENTS} \textbf{REGENTS HIGH SCHOOL EXAMINATION}$

## PHYSICAL SETTING CHEMISTRY

**Thursday,** June 20, 2024 - 1:15 to 4:15 p.m., only

## **ANSWER BOOKLET**

St	Student			
Te	Teacher			
Se	School Grade			
	Record your answers for Part B-2 and Part C in this booklet.			
	Part B–2			
51				
<b>52</b>				

<b>5</b> 3			
<b>54</b>			
55			

_ NO(g) +	$O_2(g) \rightarrow$	NO <sub>2</sub> (g)		
%	2.0	2.0		
	_ NO(g) + %	_ NO(g) + $O_2(g) \rightarrow$ %	_ NO(g) + O <sub>2</sub> (g) → NO <sub>2</sub> (g) %	$-\operatorname{NO}(g) + - \operatorname{O}_2(g) \rightarrow - \operatorname{NO}_2(g)$ $- \%$

61	
62	
63	
64	
65	

	Part C	
66		
67		
68		
69		

70	
71	
72	
73	ergy
	Potential Energy  Reaction Coordinate

<b>74</b>	74	
<b>75</b>	75	
<b>76</b>	76	
77	77	
<b>78</b>	78	
<b>79</b>	79	
80	80	
81	81 M	
0.0		
82	82	
0.0	na.	
83	83	
84	<b>84</b> $^{238}_{94}$ Pu $\rightarrow {}^{4}_{2}$ He +	
~ -		
85	85	