## B B B B B B B B B B B B

ADDITIONAL PAGE FOR ANSWERING OUESTION 8.

NH2.	
C) Ka × Kn= Ku  x 10-14 Kan 5 x0-10, 1510, 1500	
1.8 ×10-5 0/2 10	
HCI= Strong actd 1 NO Ka	
	-
Use Bromothymol Blue - half way between O and 10 is	5
gim. NHs and . 2 M HTI were used, so you mad	
leas HCl, so 7 is bettoech 5 and 10	
A NH3 + NH4Cl	
base adin vientral	
NHz and NHy+ are conjugated so the	
solution is neutral	-
	<u>.</u>

## **END OF EXAMINATION**

THE FOLLOWING INSTRUCTIONS APPLY TO THE BACK COVER OF THE SECTION II BOOKLET.

- CIRCLE THE NUMBERS OF THE FREE-RESPONSE QUESTIONS YOU ANSWERED AS REQUESTED ON THE BOTTOM OF THE BACK PAGE.
- MAKE SURE YOU HAVE COMPLETED THE IDENTIFICATION INFORMATION AS REQUESTED ON THE BACK OF THE SECTION II BOOKLET.
- CHECK TO SEE THAT YOUR AP NUMBER APPEARS IN THE BOX(ES) ON THE BACK COVER.
- MAKE SURE YOU HAVE USED THE SAME SET OF AP NUMBER LABELS ON ALL AP EXAMINATIONS YOU HAVE TAKEN THIS YEAR.