

BECAUSE THE
 K_b OF 1.8×10^{-5} THE K_a OF
 1×10^{-14} WHICH IS OVER
 1.8×10^{-5}

D) $K_b = 1.8 \times 10^{-5} = \frac{[OH^-][NH_3]}{[NH_4^+]}$ WITH

EQUAL CONCENTRATIONS OF NH_3 & NH_4^+ THEY CANCEL LEAVING $1.8 \times 10^{-5} = [OH^-]$
 TAKE THE LOG OF THAT TO BE ABOUT
 $pOH = 14 - 5 = 9$ SLIGHTLY BASIC

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.