| IV | 3.63 x
$$10^3$$
 moles | (1 mark) |
| IV | 3.63 x 10^3 x 10 |
| = 3.63 x 10^2 moles |
| $\frac{4.5}{3.63x10^{-2}}$ |
= 124	(3 marks)		
(iii)	Dx H₂0		
90 + 18x = 124	x = $\frac{34}{18}$		
= 1.9	≈ 2	(2 marks)	
Colourless liquid condenses on cool parts of test-tube	White solid remains		
(b)	Colourless filtrate	Compound sparingly soluble	(2 marks)
White residue	Compound sparingly soluble	(2 marks)	
(ii)	No effervescence	OH Present or HCO₃ or CO_3^{-2} present	(2 marks)
(iii)	White PPt formed	Ca^{2+} , Ba^{2+} , Pb^{2+} present	(3 marks)
(iv)	No white PPt	Ba^{2+} Present or Ca^{2+} or Ca^{2+}	

 $1.45 \times 10^{-3} \times 5$

III