Question 31 (6 marks)

(a) A student collected a 250 mL sample of water from a local dam for analysis. The data collected are shown in the table.

Mass of filter paper	0.23 g	A service of the	
Mass of filter paper and solid	0.47 g	75 71	
Mass of evaporating basin	43.53 g	2	
Mass of basin and solid remaining	44.67 g	\$1.49	solid

(i)	The water was filtered and the filtrate evaporated to dryness.	2
	Calculate the percentage of the total dissolved solids in the dam sample. The total dissolved solids is equal to:	
	하는 그런 보고 그는 그는 그를 모르는 걸다. 그런 그리는 하는 그와 바다 그리고 하셨습니까 하는 사람이 되었습니다. 그리고 그런 그리고 하는 것이라고 하는 것이 없는 것이다. 그런 그런	
	<u> </u>	
	250 ml	
	1.43 250ml × 100 = 0.456%	
(ii)	It is suspected that the water in the dam has a high concentration of chloride ions.	2
	Describe a chemical test that could be carried out on the water sample to determine the presence of chloride ions. Include an equation in your answer.	
	if you add Silver nitrate and a	
	precipitale forms, CI ions could be present	
	AgNO3 + CI -> Ag CI + NO3 insoldle soluble	
	insoluble soluble	
	Question 31 continues on page 24 precipitale	

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Question 31 (continued)

(b)	Name an ion other than chloride that commonly pollutes waterways, and identify
	its source and the effect of its presence on water quality.
	Phosphorus, sometimes as a builder in
15-1121. S-1121.	delegents that if it gets teeched
	out in the water could ause
	extrophication, algore brooms which
	can bill off marine life and water
	plants that End of Question 31 photosynthesis

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