Practice Question Set For A-Level
Subject : Chemistry
Paper-1 Topic: Inorganic 1

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Name of the Student:_____
Max. Marks : 17 Marks **Time : 17 Minutes**

Mark Schemes

Q1.

(a) (i)

	The addition of $AgNO_3$	followed by concentrated	the addition of $NH_3(aq)$
Observation with NaBr(aq)	Cream or off white precipitate or solid (1)	Precipitate dissolves (1)	
Observation with NaI(aq)	Yellow precipitate or solid (1)	Precipitate insoluble or no change (1)	

(ii) Ag F is soluble;

5

(b) (i) identity: $[Ag(S_2O_3)_2]^{3-}$;

1

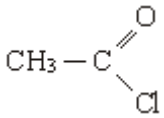
(ii) equation: $AgI + 2S_2O_3^{2-} \rightarrow [Ag(S_2O_3)_2]^{3-} + I^-$

1

(iii) use: in photography or as a fixer;

1

(c) (i) Structure

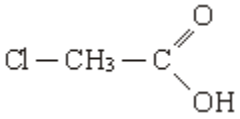


1

Observation: Vigorous or violent or exothermic reaction
or fumes or white precipitate formed immediately

1

(ii) Structure:



1

Observation: No immediate precipiate or reaction

OR

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white precipitate formed very slowly;

1

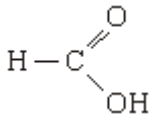
(d) (i) Silver-containing complex: $[Ag(NH_3)_2]^+$;

1

Shape: Linear;

1

(ii) Structure



1

Explanation: Methanoic acid contains an aldehyde group;

1

(iii) H_2CO_3 or CO_2 or $OC(OH)NH_2$ or $(NH_2)_2$ CO or $(NH_4)_2$ CO_3

OR

$HCOONH_4$;

1

[17]

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