CHEMISTRY DEPARTMENT 2023 S.4 BRAINSTORMING TEST

TOPIC; CHLORINE AND ITS COMPOUNDS

NAME	INDEX number	
Signature	STREAM	
Instructions;	Attempt all questions in this pape	er.
1.(a) Damp blue litmus paper what was observed and expla	was dropped in a gas jar containing c in your observation.	hlorine. State
Observation	•	(01mark)
Explanation		(03½ marks)
chlorine water and the mixtur (i) State what was observed	chlorine water was inverted into a beare exposed to sunlight for some time	(01 mark)
	quation(s) your observation(s) in b(i)	

(c) State what would be observed if chlorine was bubbled following and in each case write an equation for the react (i) Cold dilute potassium hydroxide solution	_
Observation	(01 mark)
Equation	(01½ marks)
(ii)Hot concentrated potassium hydroxide solution Observation	(01 mark)
Equation	(01½ marks)
(iii) Potassium bromide solution Observation	(01 mark)
Equation	(01½ marks)
(iv) Potassium iodide solution Observation	(01 mark)
Equation	(01½ marks)

(v) Solution of iron(II) ions Observation	(01 mark)
Equation	(01½ marks)
(vi) Burning magnesium was lowered into a gas jar of chlorine Observation	(01 mark)
Equation	(01½ marks)
(vii) A gas jar of hydrogen sulphide Observation	(01 mark)
Equation	(01½ marks)
2.(a) State the conditions under which each of the following car chlorine gas and write an equation in each case.(i)Iron wire	
(ii)Sulphur	(02 marks)

(iii) I urpentine	(02 marks)
(e) Briefly describe a test you would car ion in solution.	ry out to confirm the presence of chloride (02 marks)
(c) State one use of chlorine	(0½ mark)
(f) Describe the laboratory preparation of manganese(iv) oxide powder.	f a pure dry sample of chlorine gas from (6 marks)