## CHEMISTRY DEPARTMENT 2023 S5 TOPICAL TEST

## **INORGANIC CHEMISTRY**

## SUB TOPIC; PERIOD THREE

Name	. combn
1. Sodium, magnesium, aluminium and silicon are some of elem Describe the reaction of those elements with	ents of period 3.
(a)air	(06 marks)
(b) Water	(06 marks)

2. Br	riefly d	escribe the reaction of sulphuric acid with magnesium	(03 marks)
•••••			
•••••	•••••••		
(ii)W	/rite an	equation for the reaction between dilute hydrofluoric ac	eid and silicon
3.	Write and	e an equation for the reaction between hot sodium hydro	oxide solution
	(a)		1 ½ marks)
	(b)		(1 ½ marks)
	(c)	silicon (1 ½ marks)	

(d) Aluminium	(1 ½ marks)
(e) chlorine gas	(1 ½ marks)
<ul><li>4. State the conditions and write equagas</li><li>(i) Sodium</li></ul>	ation under which elements react with chlorine (02 marks)
(ii) Magnesium	(02 marks)
(iii) Phosphorus	(02 marks)
(iv) Sulphur	(02 marks)
5. Write an equation for the reacti (i)Sodium oxide	ion how the following oxides react with water (1½ marks)

(i	ii) silicon dioxide		(1½ marks
(i	iii) phosphorus(v) ox	ide	(1½ mark
		ormula of the hydrides of see of bond present in the cor	odium and phosphorous, in mpound. (03 marks)
	Element	Formula of hydride	Type of Bond
	Sodium		
	Phosphorous		
V	Vrite equation to sho	w how hydride of sodium	reacts with water (1½ ma