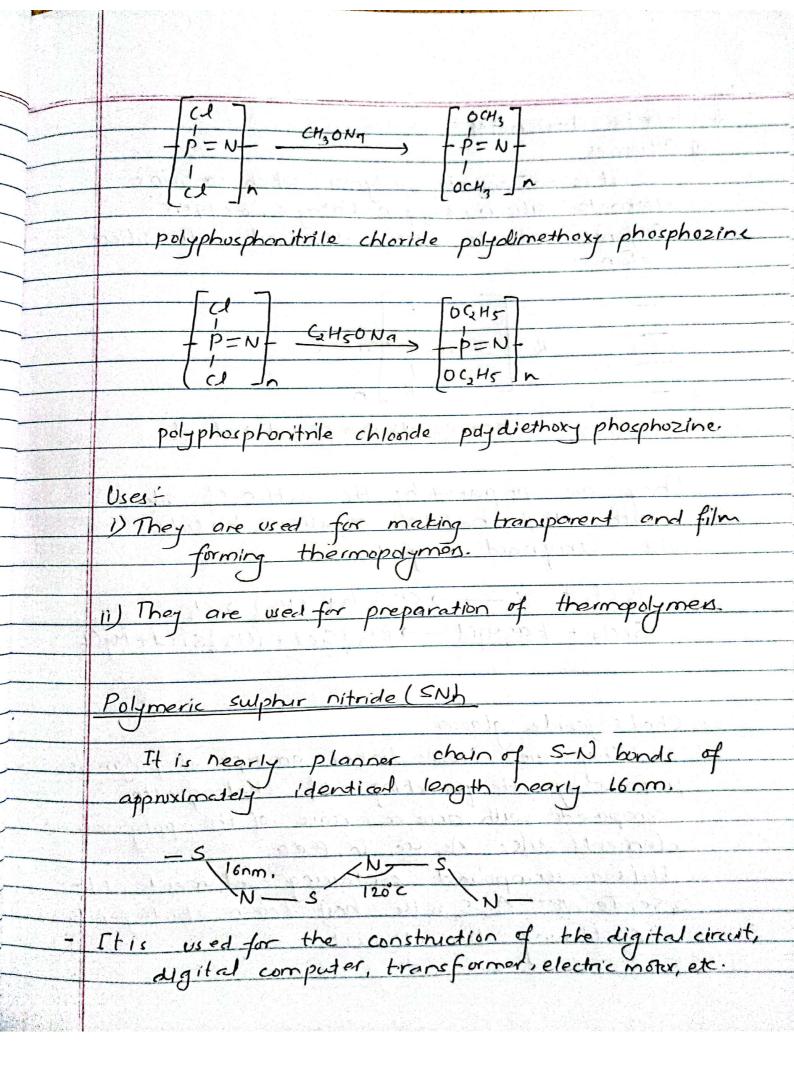
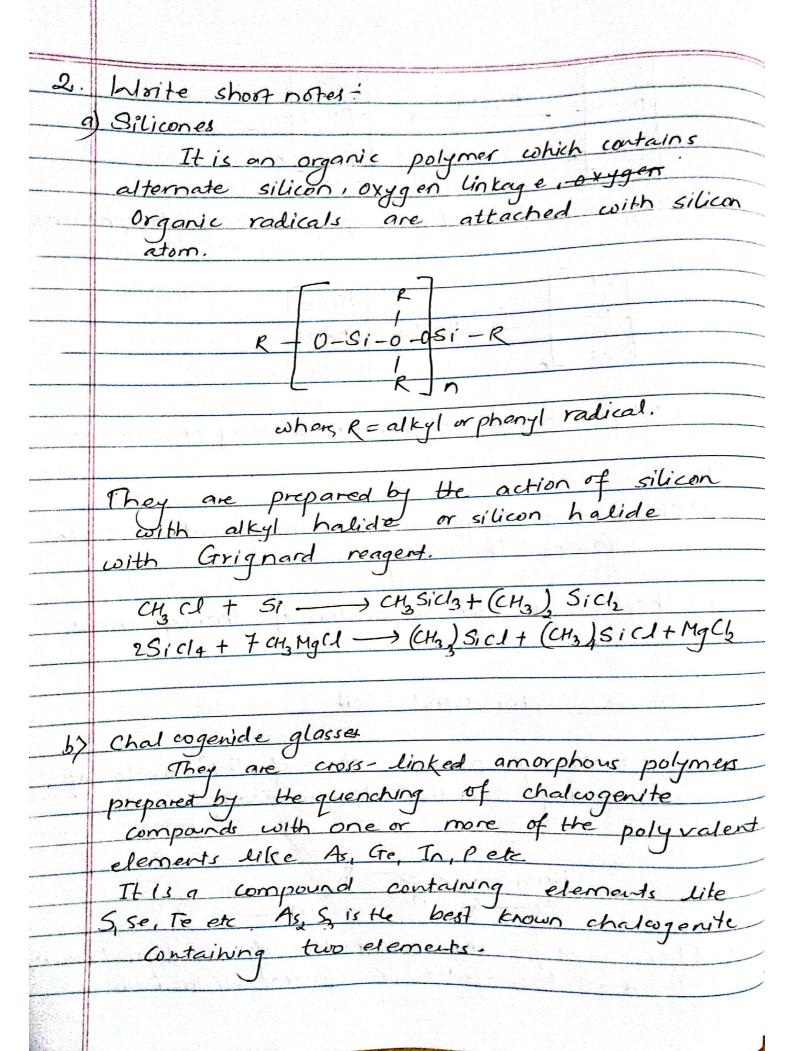
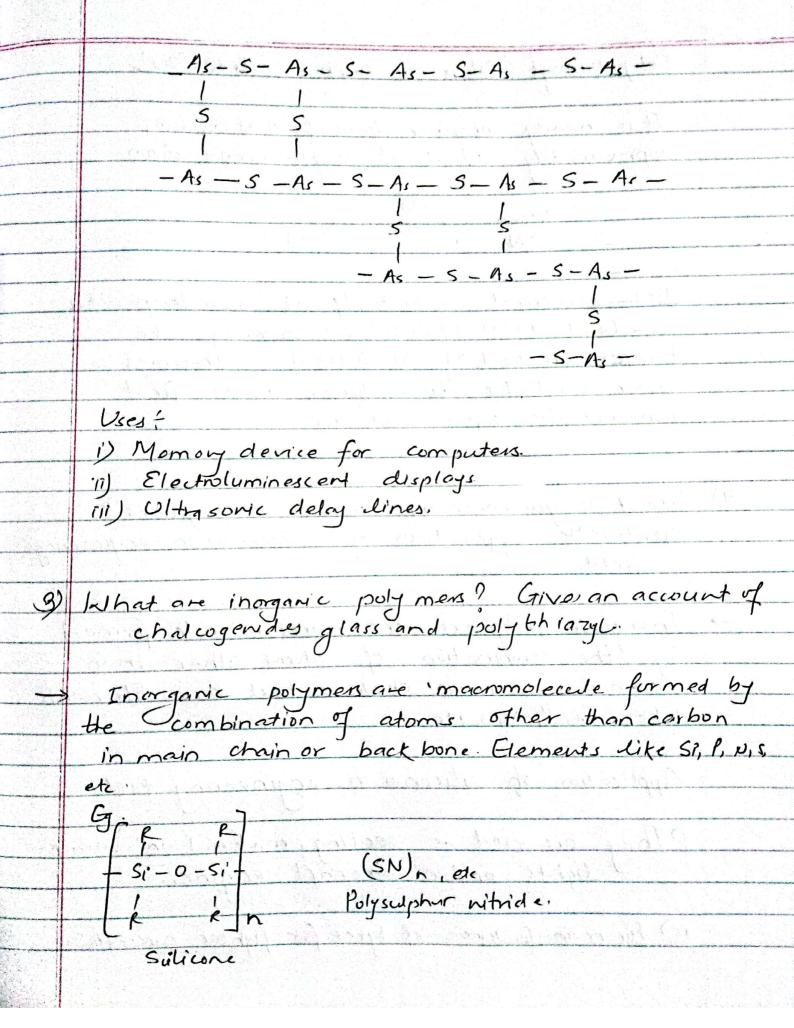
	Assignment-4 BCT-A ROLL-044
	Inorganic polymers:
1.	Explain the preparation and uses of polyphosphazinos, and polymeric sulfur nitride.
\rightarrow	a) Polyphosphonitaile chlonides
	They are prepared by reaction between phosphorus pentachloride and ammonium chloride In presence of CaH5(I at 120-150'C followed by heating cyclic tetramer in vacuum at 250'C forming chain polymer. In PCls + NH4Cl CaH2(I) + + = N + Cl + (PCl2 NB + (PCIN)4 - (4n-1)HCl
	n (PCI, N), 250°C/Vaccum; Cl + P=N-Cl + (P4 + 2N2 + 3Ch) (cl 4n-4 Chain polymer
5>	Polydimethoxy phosphazines and polydiethoxy phosphazine

They are prepared by the reacting of phosphentrile chloride coith sodium methoxide (CH30Na) and sodium ethoxide (C2H50Na) respectively.







	Polythian I (Polymaric supply nitride) (SN)
	Polythiazyl (Polymeric supply nitride) (SN)n
	It is nearly planner chain of S-N bonds of approximately identical largth nearly 16 nm.
	identical length nearly 16 nm.
	egiproximately ruesquest
	-5 KN-5
	-5,16nm N-5 120 N-
	It's electrical conductivity at nom temperature
	is about 1200-3700 sticm 1 lawering the becomes a
	Super conductor. This polymer is the first
	Super conductor:
	non-metallic super conductor.
	The state of the s
	I de un mean by inorganic polymers?
7	lathat do you mean by inorganic polymers? Mention the applications of silicon es in engineering field.
	Pention (Egypte)
	field:
	1 marcamplecule formed
->	Inorganic polymers are marconicted from the combination of atoms other than by the combination of atoms other than carbon in main chain or back bone. Elements like Si, P, N, s, etc.
	by the main chain or back bone. Elements
4 3	Si P. N. s etc.
	like on a second
	A line of cilicones in engineering field
	Application of silicones in engineering field
	i) They are used as sealing, material in search
	i) They are used as sealing, material in search lights and in aircraft engines.
	agrain and arrivers.
	ii) for manufacture of tyres for fighter aircrafts.
	rec. 사용하는 19 20년 1일

	iii) As adhesive in electronic industry
	IN For making artificial heart valves transfusion tubing and padding for plastic surgery.
5)	What are chalagenile places? Give an account
	What are chalcogenide glasses? Give an account of preparation and uses of network polymers of sulfur.
<i>→</i>	Chalcogenide glasses are cross-linked amorphous polymers prepared by the quenching of chalcogenite compounds with one or more of the polyvalent elements when As, Gro, In, P.
	-As- S-As - S-As- S-As -
	AS-8-AI-S-AI-S-AI
	- A- S- AJ- 5-AJ-
	S-As-
	Uses:
	ii) Ultrasonic delay lines
	ni) High energy particle detector multipliers.
D	Y − X − ×