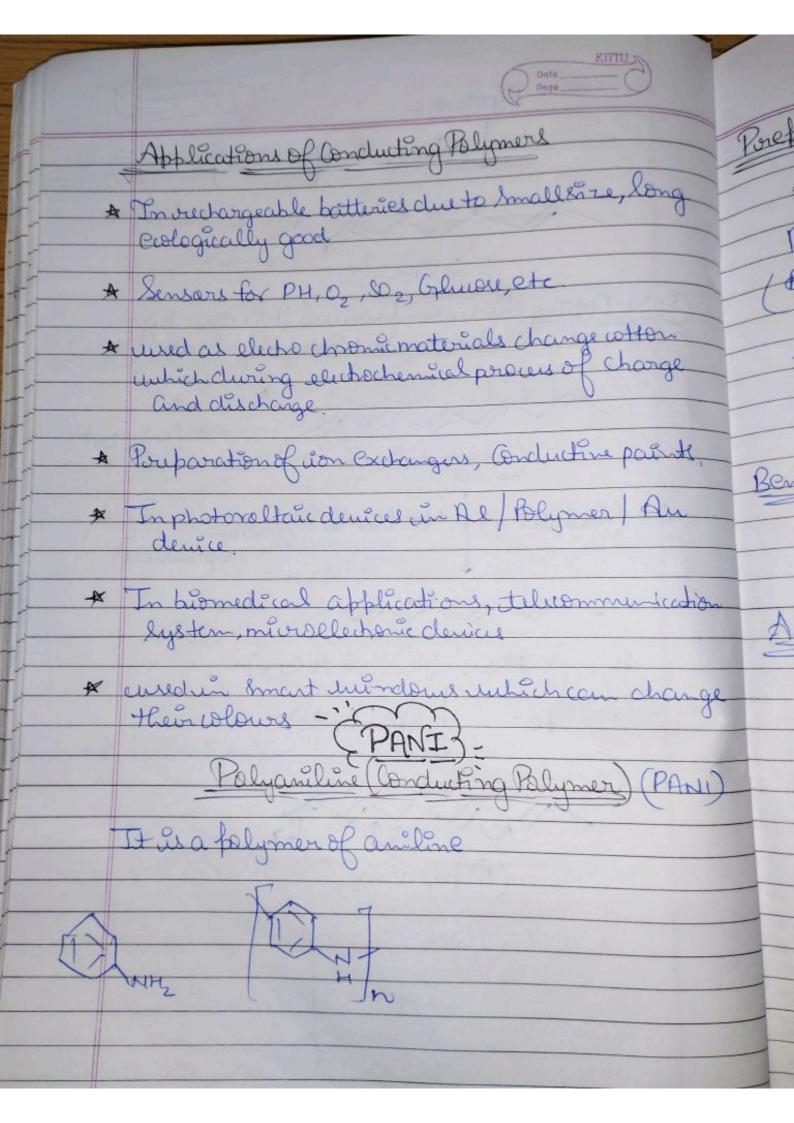
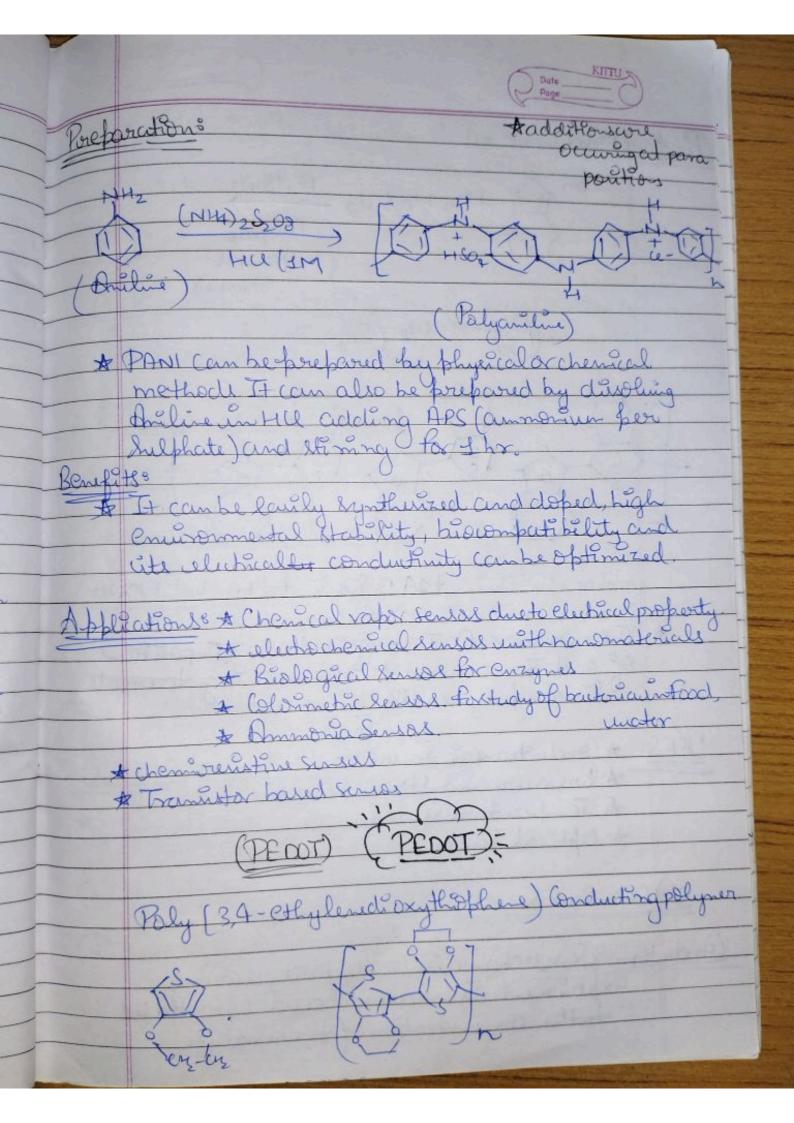
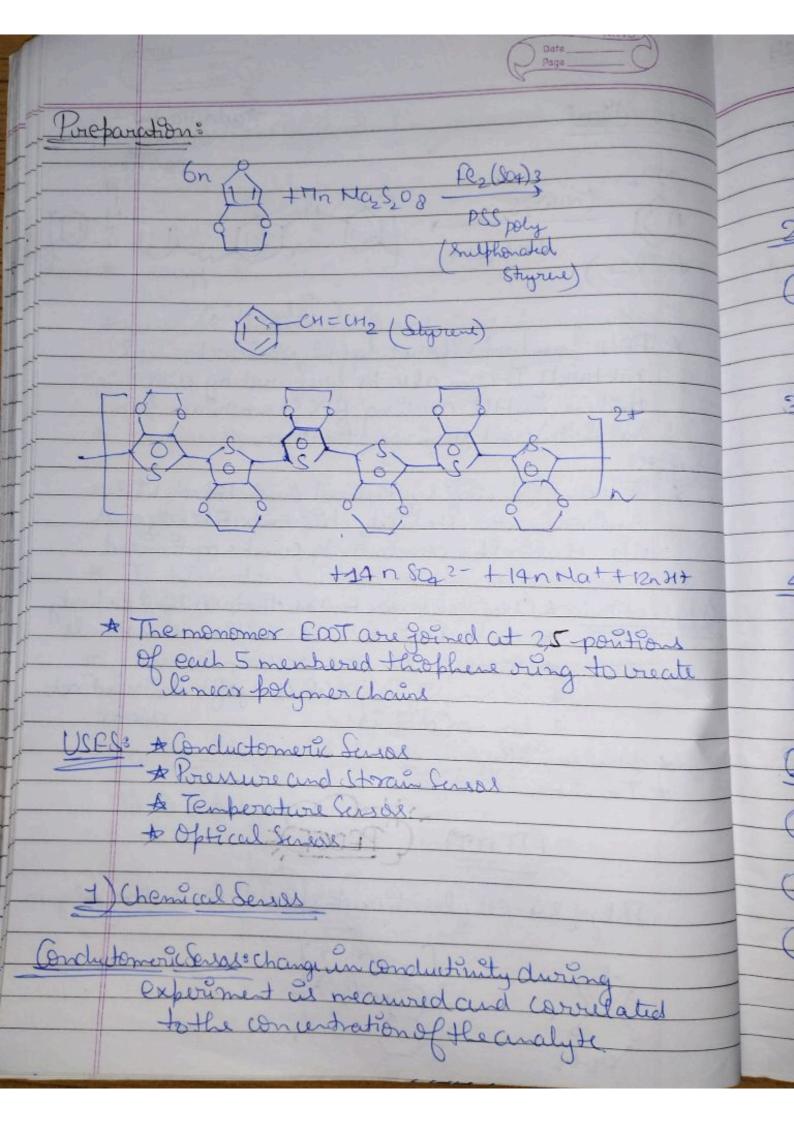


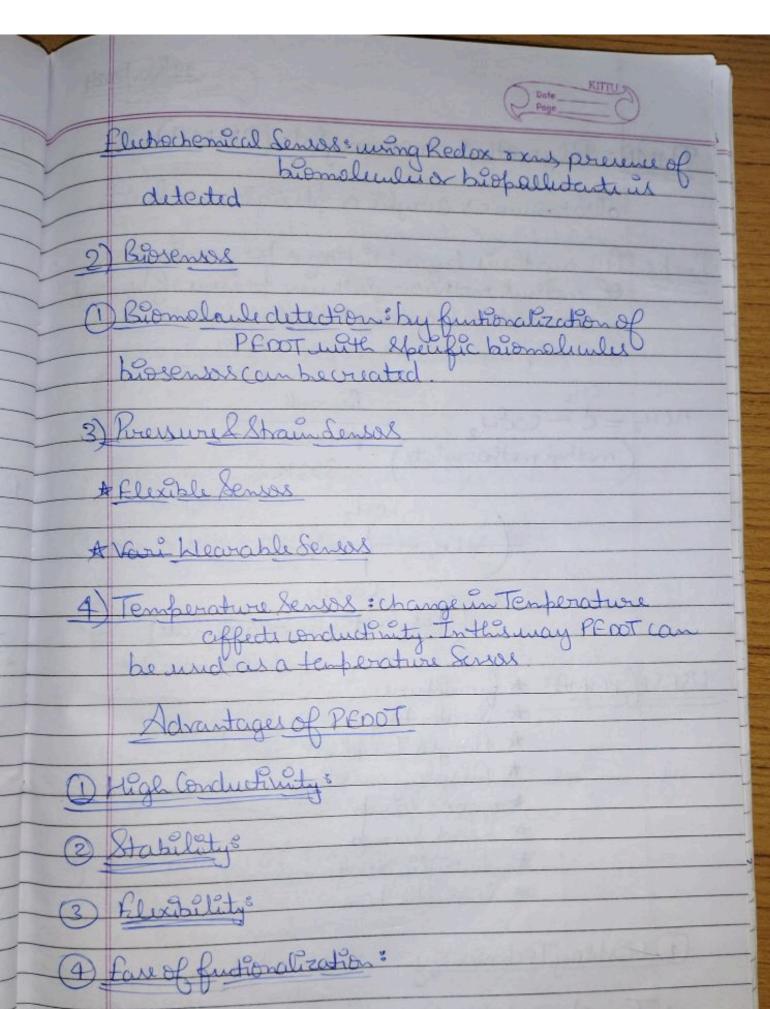
eg palyactylene ninzin > (V)n (Acetylene) (polyacetylene) (cH=CH) Doped Conducting Polymers: Polymers having conjugation
Can carrily be exidenced Soudwed
They have low assistation potential & high
electron affirmity.
Doping is done in true ways: P-Doping. It is done by exidction process and toreatment with levin andle eacceptos). Polyantylene (CH)x+LA (CH) X + LAe (oxidation) Iz/cula Polaron [Radical cation) e-(oxidation) I/(cea Bipolaron (dication)

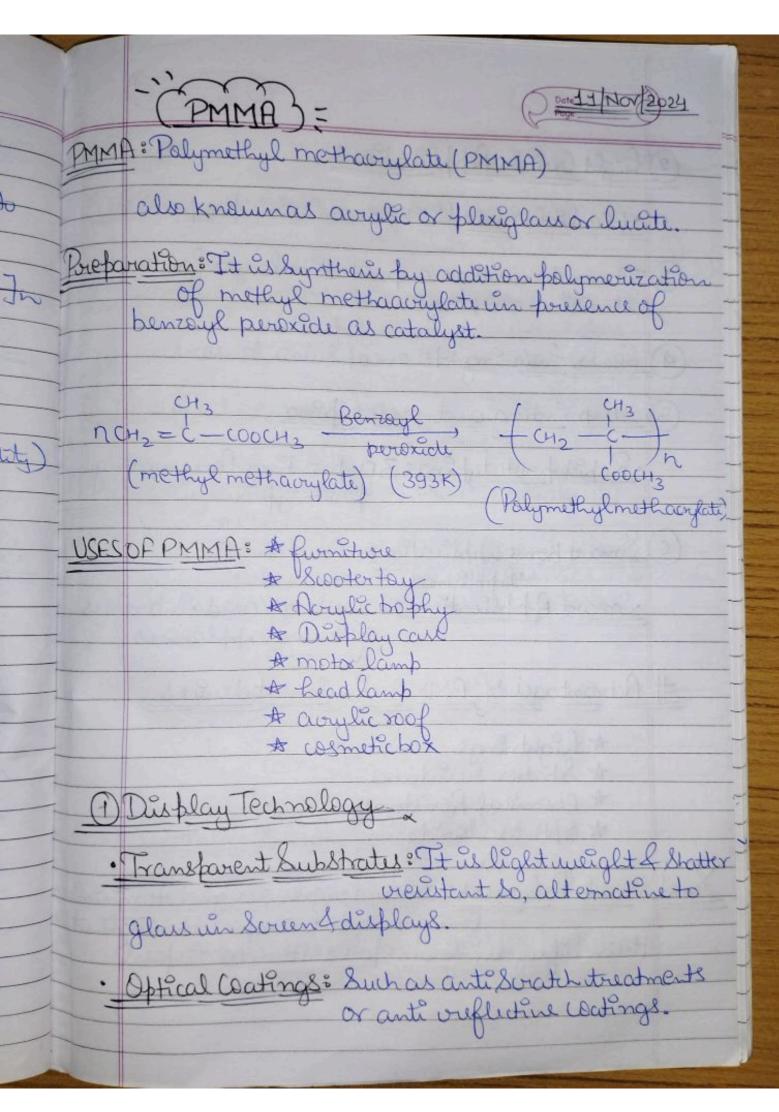
Bipolaron 1 (Segregation of Cation) to the same of the (Solitonpair) 2 N-Deping : Reduction process at is done by treatment with heris base. A (CH)x+LB -> (cr) = FB+ (Polypertylene) 1e-(Reduction) Nat (GoHo) (Sodium Nathalide ANNO Blavon (Radical Arion) te- Not (CIONS)-(Bifolaron)

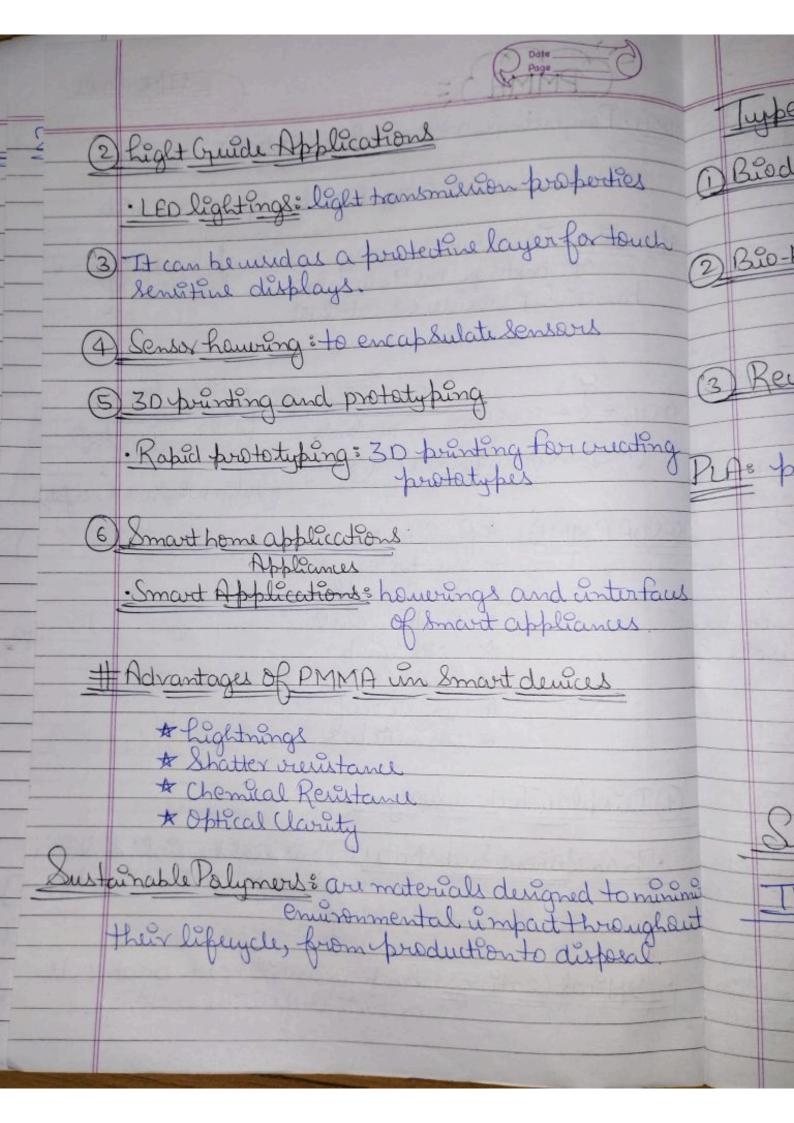


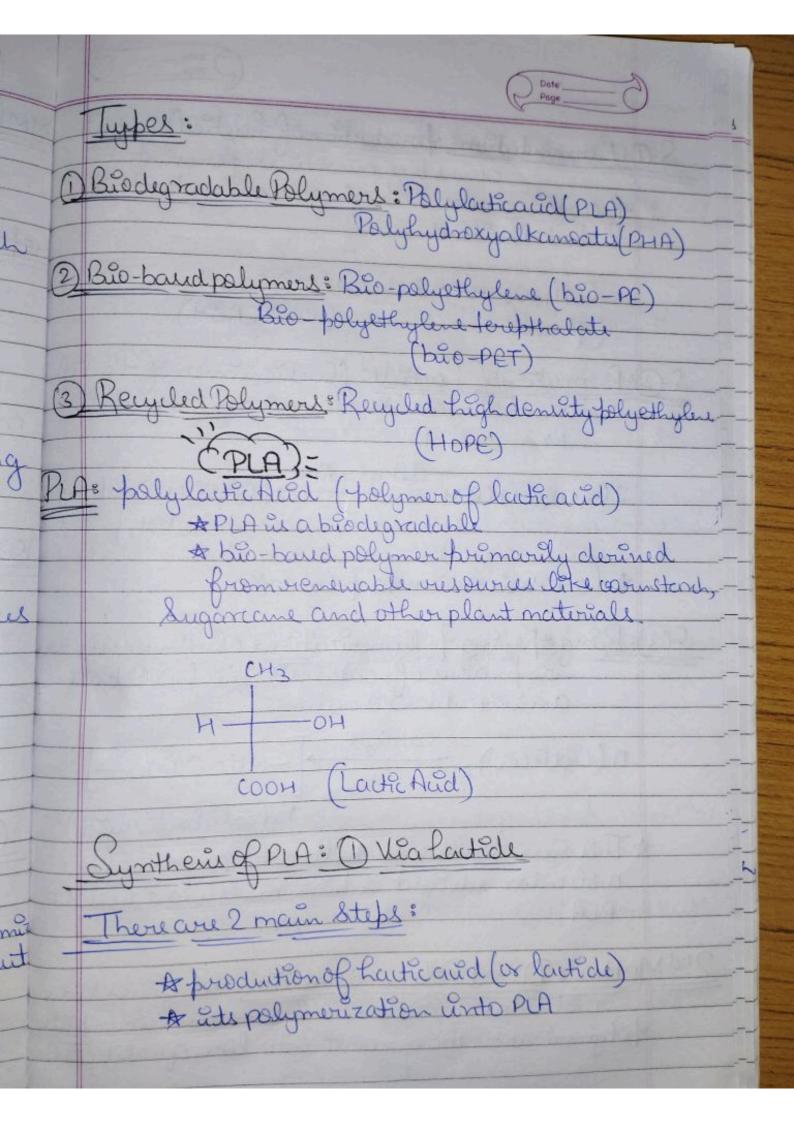


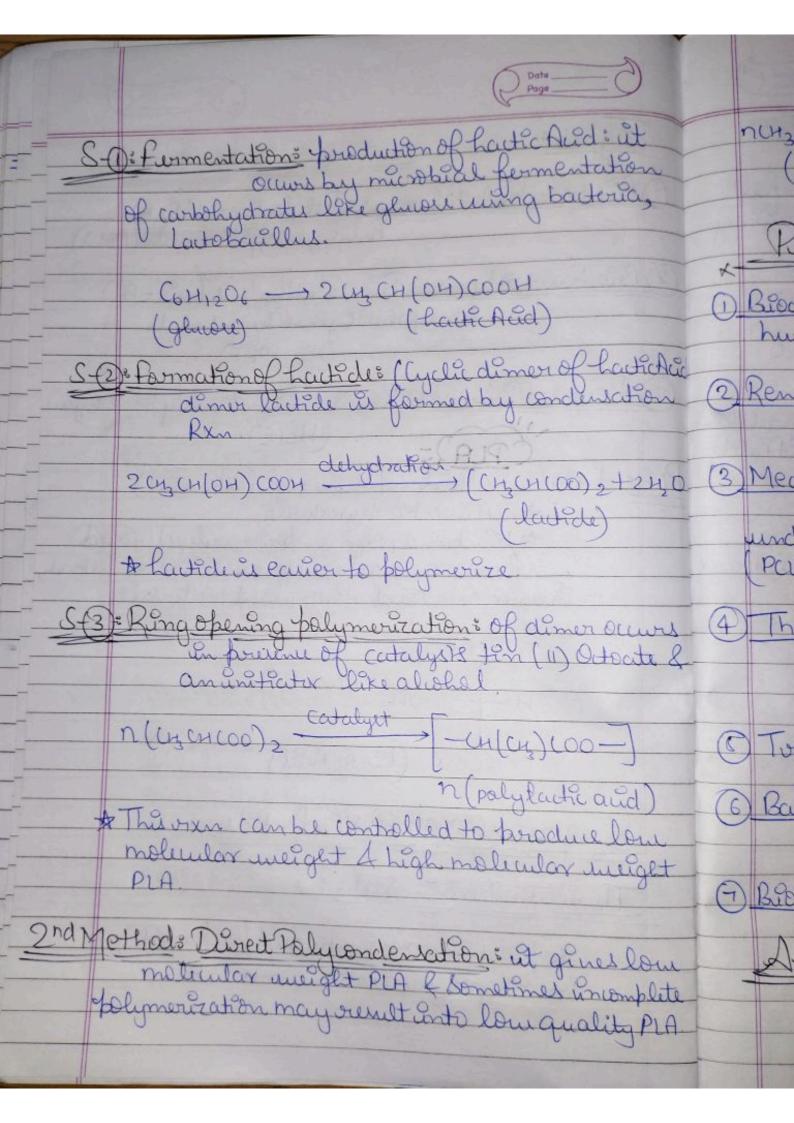






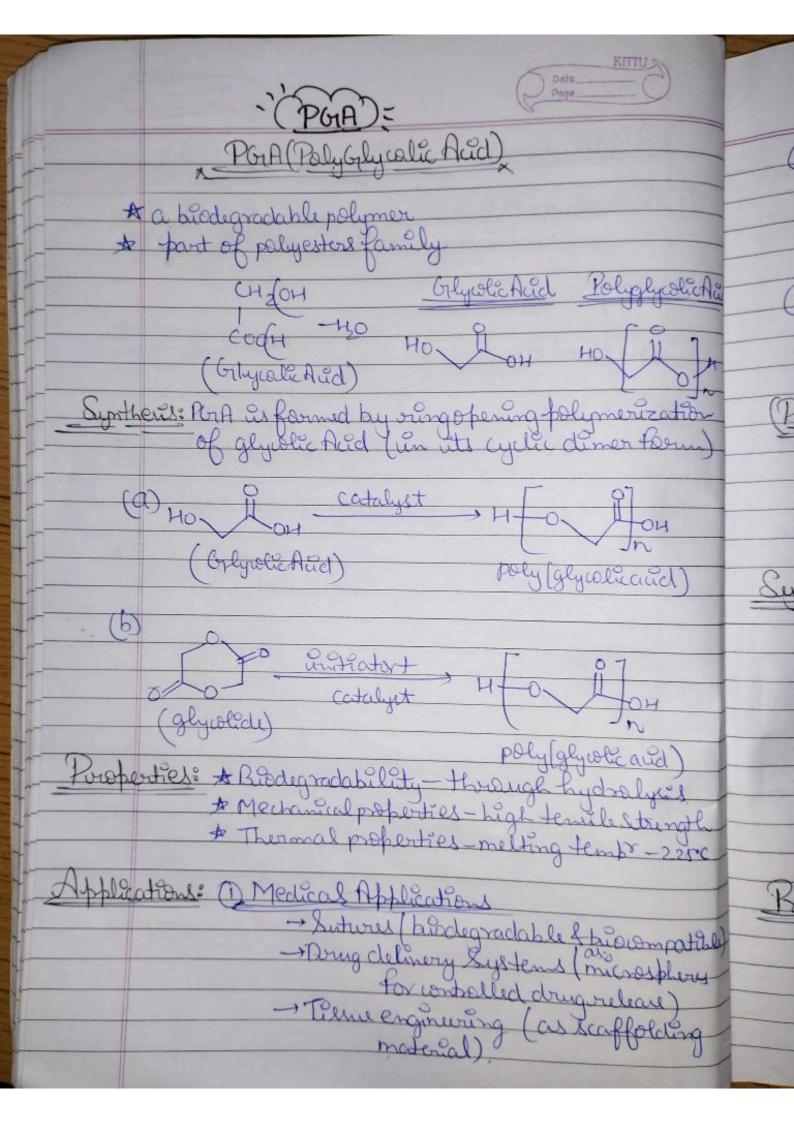






ncH3CH(OH) (OOH dehydration (lautichard) -cu(u3)60)n +n40 x-Poroperties of PLA De Brodegradable (only under high temperature & humidity) (undustrial comporting conditions) actichad 2 Renewability: it is desired from Renewable ation (3) Mechanical Poroperties it has high tenul strongth but it is bruttle of prone to cracking under stress. That's why copolymers like (PCI-polycapro-lactore) is mixed. +240 (4) Thermal Properties: Orlan transition temperature ente & melting boint (100-100°C) O Transparent, clear, glas like material 6 Barrier properties ongen barrier properties -}
unfil in food parkaging @ Biocompatibility: used in biodegradable implants Applications: @ Packaging low 2 30 Pounting plete (3) Medical demices PLA (4) Textilus

* Texteles PIA combe word to make fisheres Medical demiced: PLA is musidian blodigadable to its care of the and low to xulty to be and du * Mackaging & PLA is commonlywide and backaging Abolicutions of PA for toxue conginerang Lolland. for clothing and brodegradable buck Sutures, Stents and Scanffelds



What do you know HWE about microprastics / Fridy about menoplatry (2) Environmental Applications → In Biodegradable packaging
→ Agracultural films chad 3) Biomedical devices -> Wounddrewings . PHBY (PHBV): Paly (3 hydroxy butyrate - co-3-hydroxyvalerate) * is a biopolymer * belonging to the family of polyhypoxyalkanoatu

* it is a thermoplant Synthemis It is obtained by the copolymerization of 3 hydroxybutanoic and 3 hydroxy pentanoic and n (10- (n-c/2-(don)+n(1))-(1-c/2-(001)) -120 - 0-CH-Cy-(-0-CH-Cy-C) Kopenties O Mechanical properties : high terriles bength and elastruty which dependenton the ratio of monomers 2) Biodegradability: eary to biodegrade Tg:50C and Tm: 170°C

D Runier papenties: good gas barrier paper (3) Thermal properties Then mad Stability Sout can alecations O Paukagen Jextelus of and Scaffeld Agricultura Systems Date