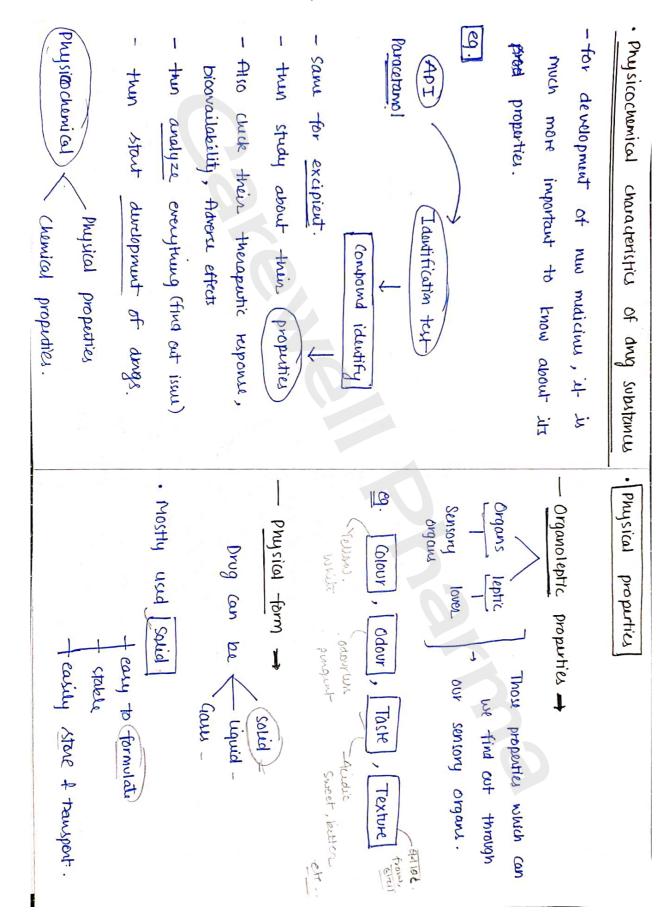
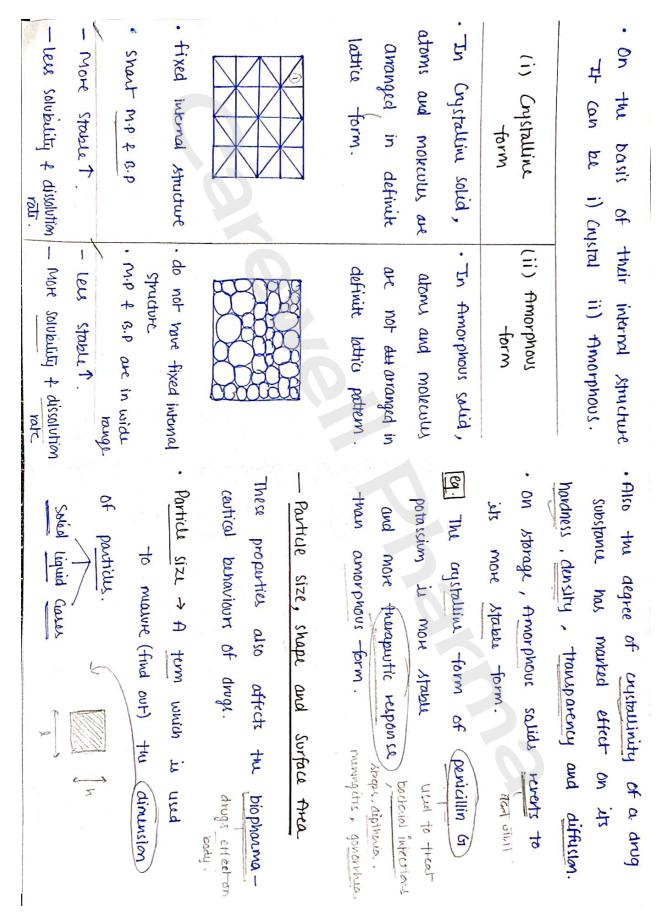


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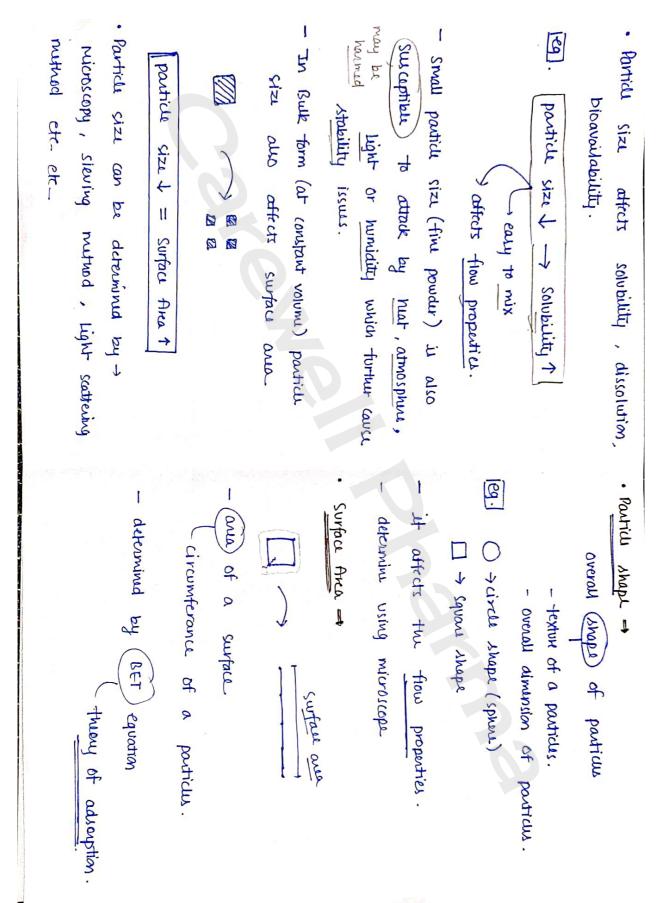


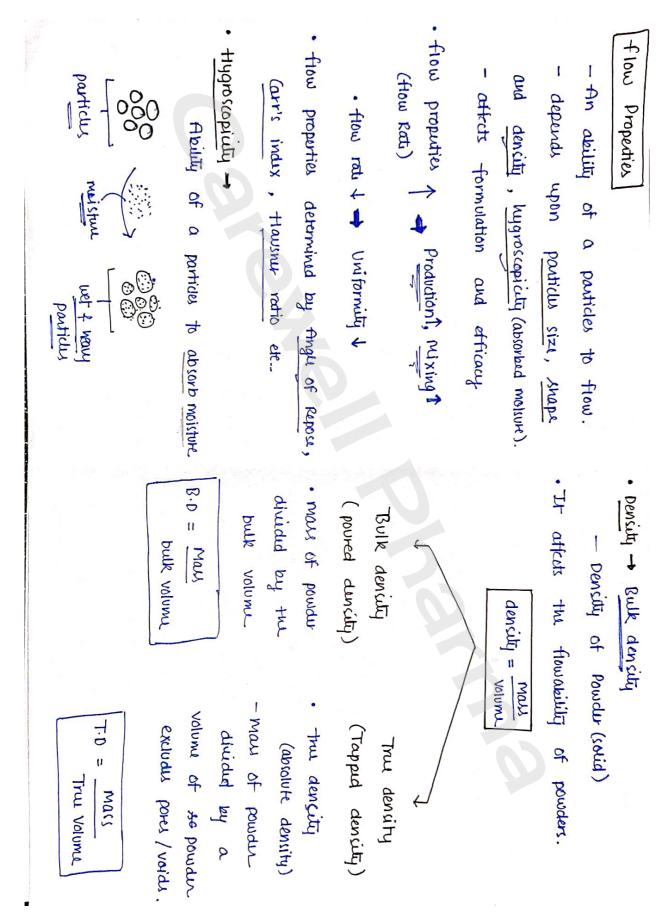
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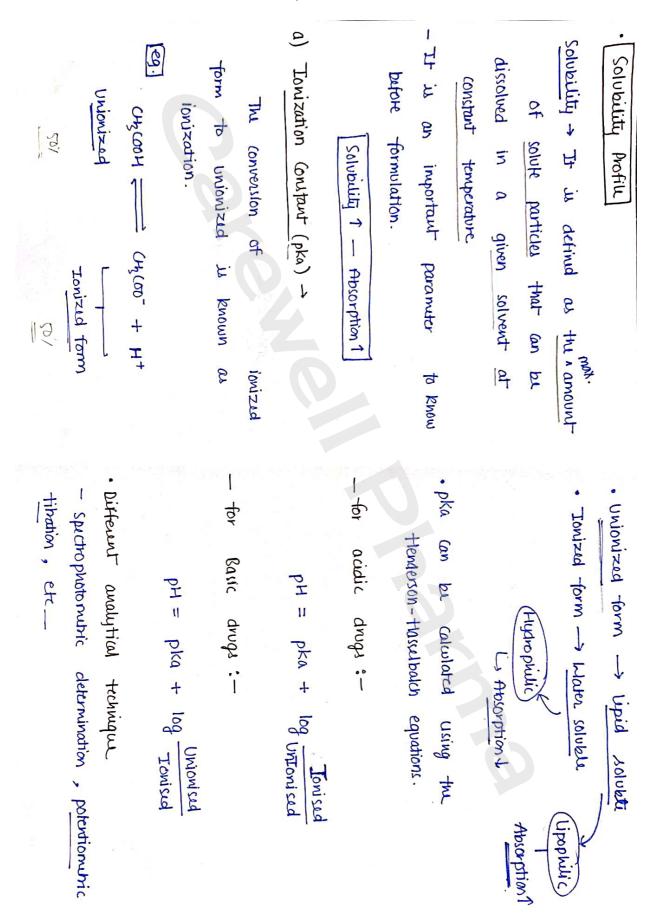


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Poor-must agitali, 46-55 vibrali	Passable - may 41-45	fair (aid not 36-40 needed)	Excellent 31-35	-> flow properties fingle of Repose	Angle of Repose I = flow property ?	is know at the angle of repose. Than $0 = \frac{h}{r}$ where, $h = h = h = h = h = h = h = h = h = h =$	• Angle of Repose > The internal angle b/w the surface of the pile and the horizontal surface
Very Very Poor	Poor Very poor	fair Passable	fx cellent	flow property	· Hausmur Ratio	· (arr's Indux	Very poor
>38	32-37	16-20		(an's Indux	Tapped density Bulk density	Tapped dencity—Bulk density Tapped density	29-95 ← 3
>1.60	1.46 - 1.59	1.19 - 1.25	1.60 - 1.11	Hausners Ratio	حظ ۱	ncity - Bulk density x 100	angles of repose

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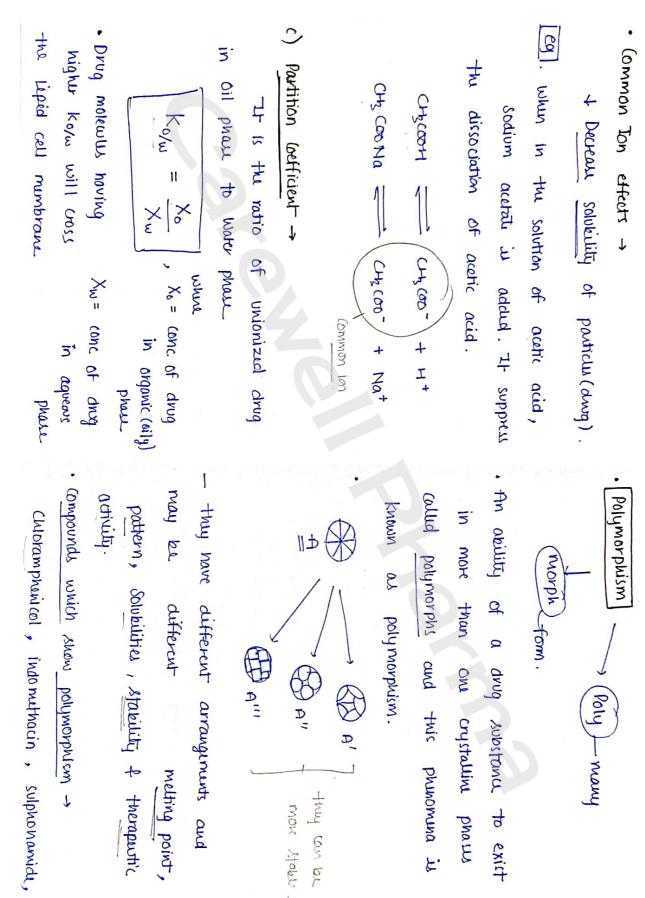
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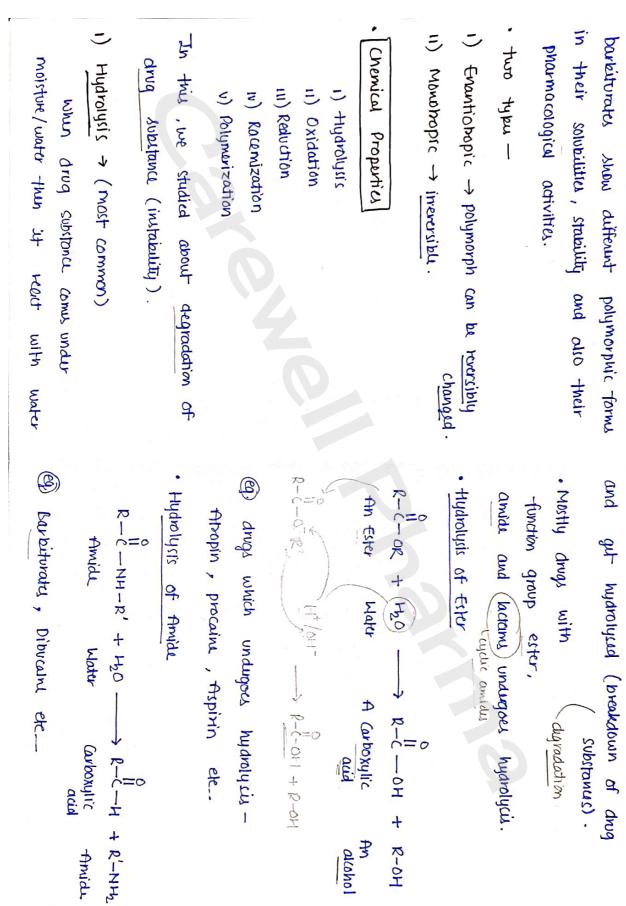


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		40 → 14	8- ← DH		Strong base	weak bash		very weak	аста	Strong	weak acid	Moderately	יכיין ויכשא טכנסו	Very track
					Jonize at pH	intestinal pH		unionized at	all pH	Ionized at	gastric PH 1.2	Unionized at	oul pH	Jonizatim
the state of the s					711	1	0	2		5.5		√. S - 7 · 3	× × ×	pka
	solveulty 1 = (solution 1) = Absorption 1	to make solution.	solid substance enters the solvent phase	· Dissolution - It is a process by which a	by addition of alkaline buffer.	dution of a	may be	the acidic or basic drug can be changed.	- By changing the PH, the solvedity of	particus.	- It can also affects the solveility of	· Used to check that particles are aidic/Basic.	Potential of Hydrogun.	b) pH -> power of Hydrogen.

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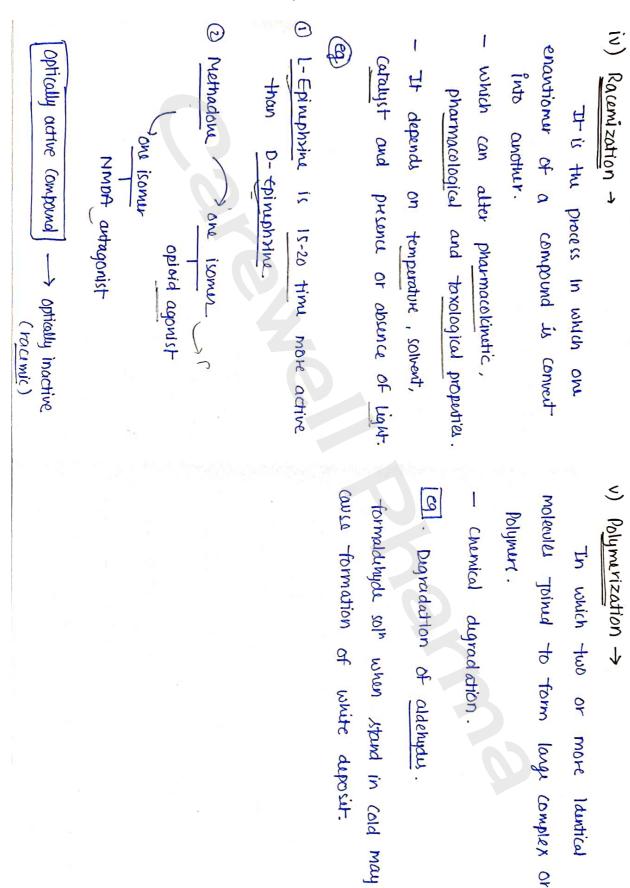


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· Make distance from moisture - use moisture 3 Reduction bublianu) exidized in the presence of By modification in chimical spuctures. By use of buffers. Oxidation -> Addition of Oxygen hydrolysis of process, benzecess can be prevented prevention 1 Clemerally pharmaceutical dosage form (drug Oxidation resistance pack for drug substance atmospheric exygen. addition of coffeins - most common Addution Gain of Removal Loss of electron. Removal of Hydrogun 111) Reduction of Hydrogun of Oxygun electron. etti prevent + eg (1) Rancidity of ail - Aldenyous, alconois, phenois, alkabolide and fats and oil are more · use of antioxidants mutal ions, light. Oxidation RIOH use of reducing agent to prevent (Butylated hydroxyl anisall) and BHT (Bytylated hydroxyl tolueru) etc... Hydrogenation of oil (Reduction 7x4). pharmacutical containers oxidation. (sodium mutabisulfite). alcohol のころ Replaced Oxygen with nitrogen du susception to exidation. RI COOK ठ carboxylic acid Such 2 Oxygun, Heavy BHA

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	class IV Low Bifonazole	Class III High Low Cimuticing	Class II Low High Aceclofenac	Class I High High Metaprolol	Solubility Permaa bility Example		permability.	into four classes upon their solubility and	Ac. to BCS, drug substances are classified	BCS is a system, which is used to differentiate the drugs on the basis of their solvability and permeability. This classification system based upon USP- United States pharmacopoela
nest dosc strength	- solubility class boundaries are based on	Poor Disavaliability.	5	iv) class IV -> These compounds have low		perminability.	but low absorption due to low	(11) Class III -> These compounds have good solubility	eg. Phenytoin, Bicalutamide etc.	class I - These compounds are well absorbed and their absorption rate is usually higher than exception. eq. Paracetamol. - make tabelets or oral dosage form easily. class II - These compounds have good ebsorption but slow dissolution and salvotion rate &

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1 Significance -PH maso used 250 ml or less Dead Stimulate permable drug substance is considered drug is considered highly highest dose chuck solvation range of す in formulation of dosage form. す outsudu product Tood effects on bio-avoidability. develop quality Study when absorption is The body Lito 2, 5年 4 1 aqueous strength 5 JVIVC Vivo Broavailability / absorption. (control. inside the body 2 rudia over the solubly in Correlations soluble when goil or more highly : Chemical changes > - foctors such as influence the quality their, M.D. B.P. purity, clarity, and other Physical change - change in changes influence the effectiveness, safety substances. philidads -thu stability Owo some physical, chemical physical factors. > The state / quality being steady there are structing of final drug products Analysis of any products, and also of many factors drug many factors which Substances. eg. oxidetion, hydrolysis temperature, humidity, light etc degradation of drug of drug product over and approvance microbiological and not B changed. affects

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reproperty changes + phinads constant form MOM The physical, Inesi toxicological Solid - State Solid-state stability analysis Compatibility Solution - state stability analysis 4 attects properties of the drug molecules studied conditions, establish shulf life of drugs thus, we anohysia decompose du to chumical, microbiological, thurspertical, propostics stability Analysis द्भ 8 Studies indudus Per study about the stability of a drug products. ang conducted of any drug is remain bigining -> Stability substance can microbial contamination. ಕ micro-organism physical or recommend thal-29 5 drug parenderal drug-excipients interaction and how thuy rapid 5 H pH, humiduty, hydrolysis, oxidation In this we affects 3 stability such as affects solid (ompotibility studies -Solution - State Stability Analysis TW. the development substance at voyous factors effect of PH this, we study about than solid form · Degradation the stabelity of drug substances. dosage form. In this, we study about dosage study about solid Study 3 form such as temperature pH, temp etc --9 about those factors which 9 solution form Stability 501 世 dosage form. which affects paro philidaply 2 the and is more Important

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