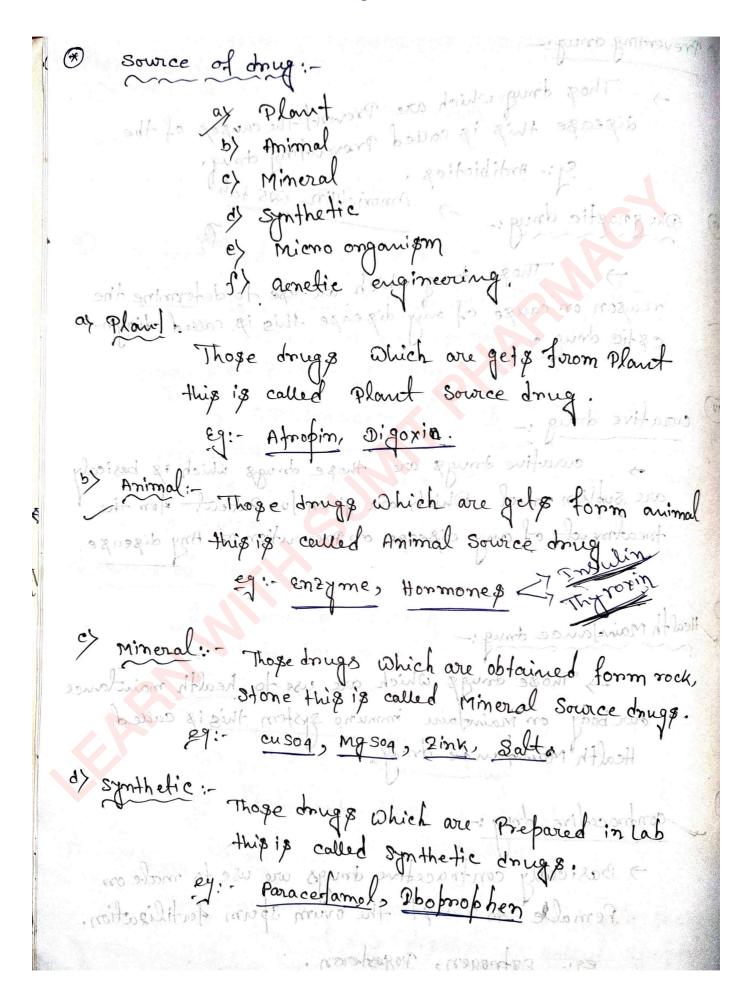
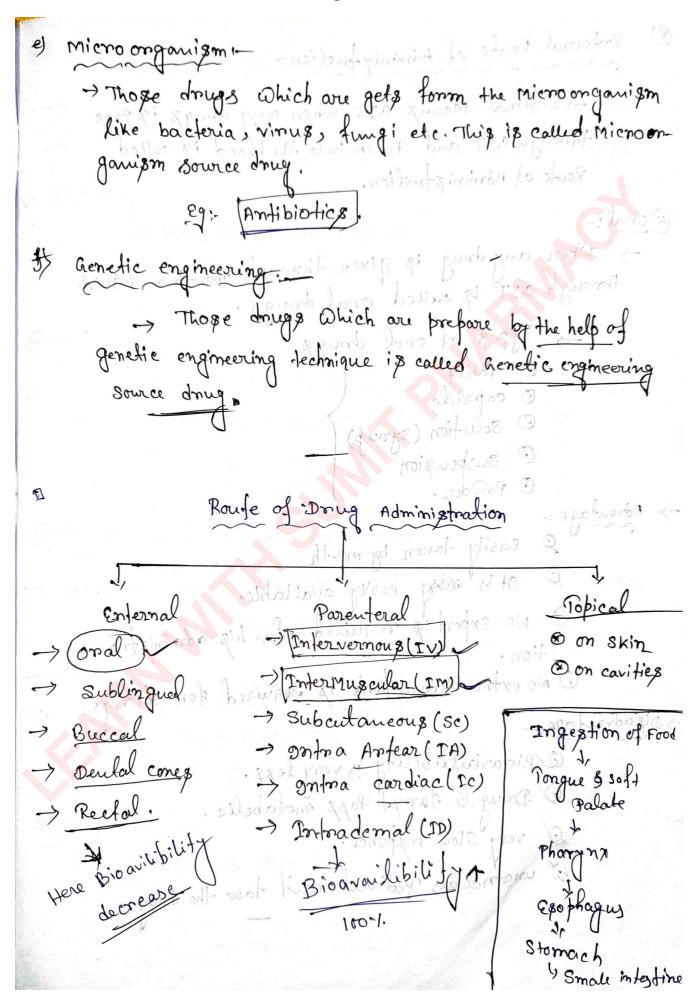


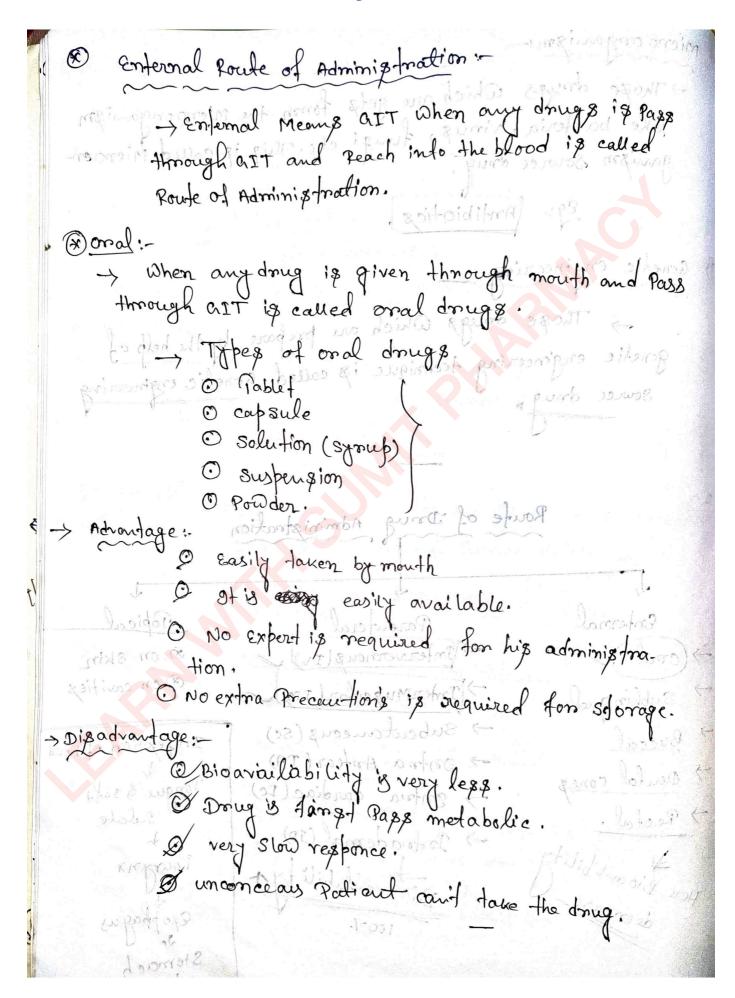
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@ Preventing drug:
Those drug which are on the state of
Those drug which are Prevent the causes of the disease this is called Preventing drug. Eq:- Antibiotics. Amoricilling-605 tab Those drug:-
Eq: - Antibiotics.
1 Dia gnostic drue.
Micro conjunt.
Those drug which we use to determine the
Those drug which one use to determine the reason on cause of any disease this is called diagnostic drug.
two is come of the property of the state of
curative drug: sixopic migorph : [3
curative drugs are those drugs which is basicaly
are suflim ment which are given to Patient for the
treatment of any disease or prevention of Any disease.
El - Eustane Hermones - 13
thealth Maintance drugs which are use to health maintance our body on maintain immuno system their is called Health maintance drug
our body on mainejoine immuno system thès is called
Health rainfance drug
The things of the state of the
Confrace-live drug: - 300 doints port
- Dasicelly contracetive drugs are use to made on
Josically contracetive drugs are use to made on Femalle to resist the ovum sperm fertilization.
eg: Egtrogen, Pogosteron.



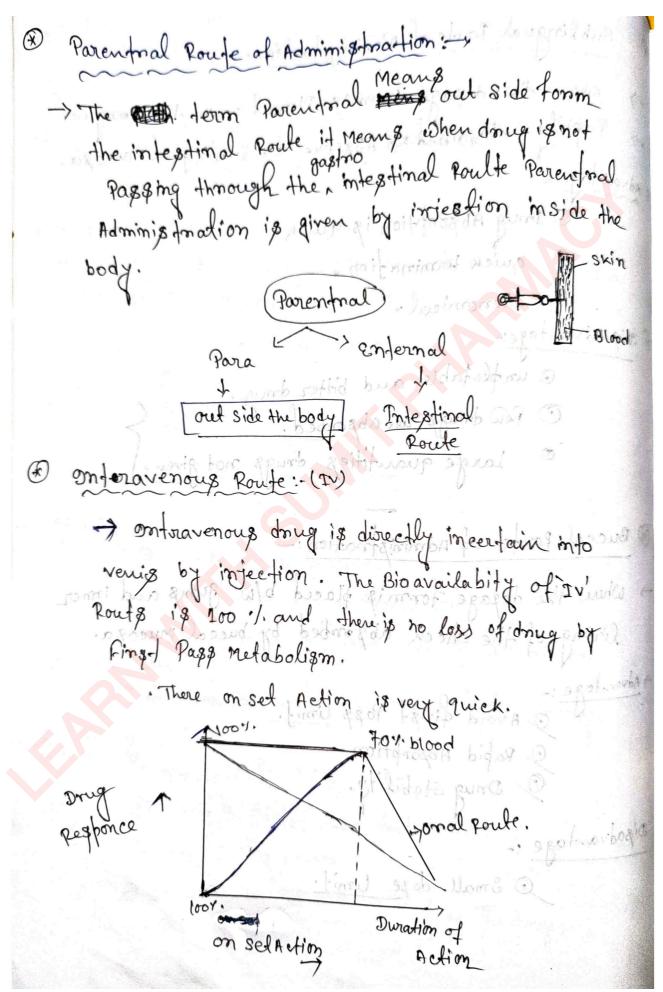


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De Sublingual Poute of Administration:
-> where the dosage form is Placed under the tounque.
-> Rapidly cosonbales Absonve by Sublingual rrucosa. Advandage:
@ Advandage: 10 of not Danitz that talk Agrande gripage
1 200 100 100 100 100 100 100 100 100 10
O quick termination. O Economical. Dis Advantage:
Occeromical « Domeson
O un platable and bitter drug.
O rew drugs are absorbed.
O rendrugs are absorbed. Large quantities drugs not given.
Buccal foure of Administration:
-> Where the dosage form is placed b/w Jums and inner
→ where the dosage form is placed b/w Jums and Inner lining of the check absorbed by buccal Mucosa.
Advantage: Avoid finst Pass Limit. Rapid Absorbtion Drug Stability.
@ Rapid Absorption
Drug Stability.
Disadvantage:
Ø Small do se limit.
location of Decetion of Superstance and Supers

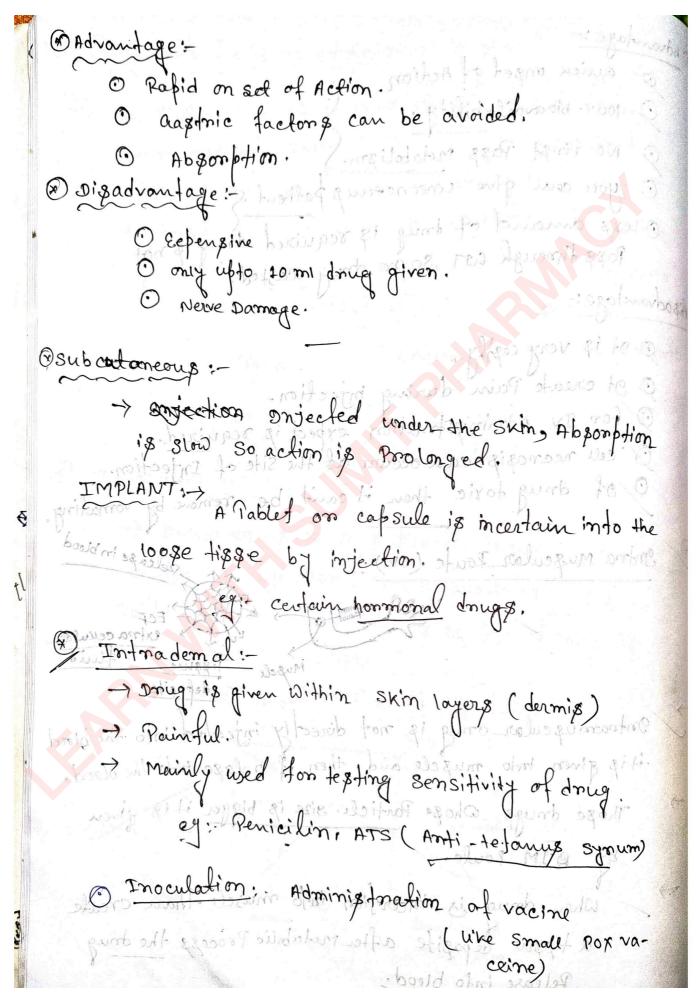
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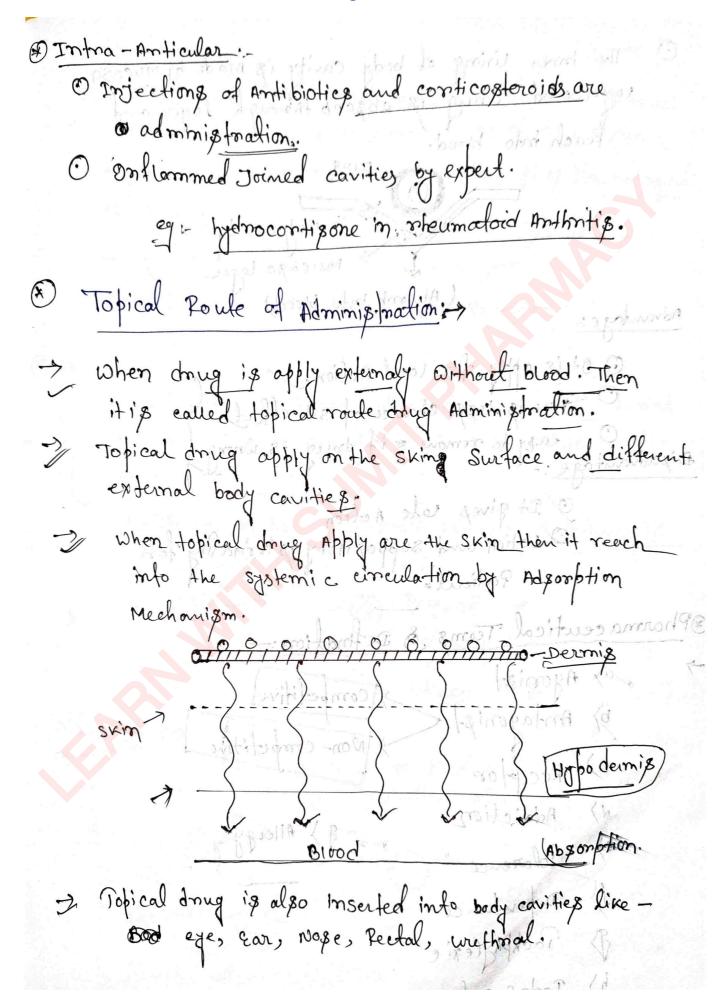
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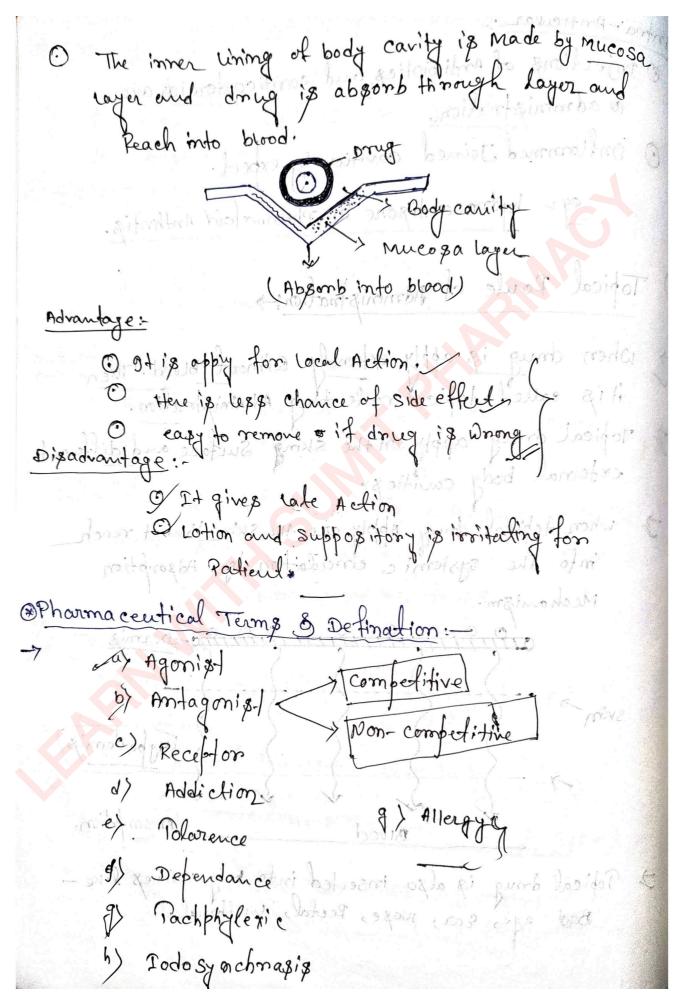
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@ Advandage:	P Haronson of the
o quick onset of Action	sofa o
9 100% blo availability of some	Hand O
O No First Pass metabolism.	rda O
O you can give unconceaux patient S	an funnybook in (3)
O less amound of drug is required drug	18 201
O Less amound of Imag 19 required dring Pass through art, so no dring wasted.	1,6,40
Odipadrandage:	
\$ 91 is very costly.	38 we contract of
O et create Pain during injection.	1 0 /-
O For Iv Adminis Incition expect is requi	nad.
O for IV administration expect is required the site of	Injection.
Of drug toxic then it could be rem	ove by vometime
History on capsides is incortain into the	d remained.
Intra Muscular Poute (IM)	seles se in blood
Su of the supplier of the supp	FCE
Muscle 118	* extra ceulon
Muscle 118	Rue fluid
10 gine within Skin loyers (durmis)	posite
mort directly inject	id into the blood
mot directly injected and then if relaxe	into the blood.
Those drugs whose Particle size is bigger	it is given
(mby o'IM foule.	
when drug is incertion into muscle-	than create
à tissue deposite after metabolic Proces	
Pelease into blood.	

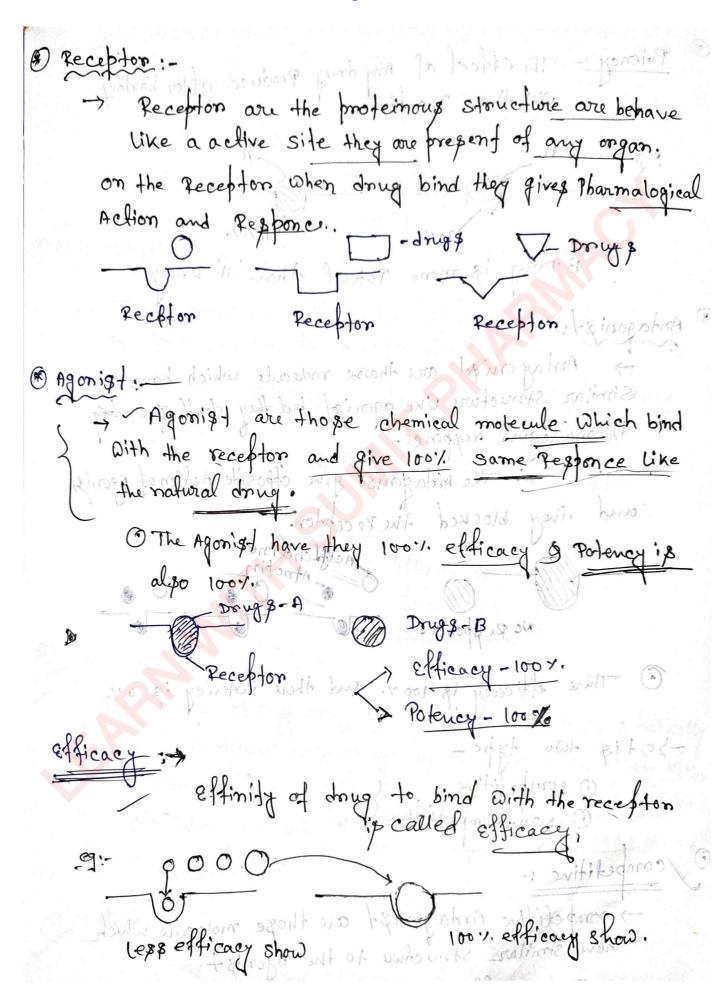


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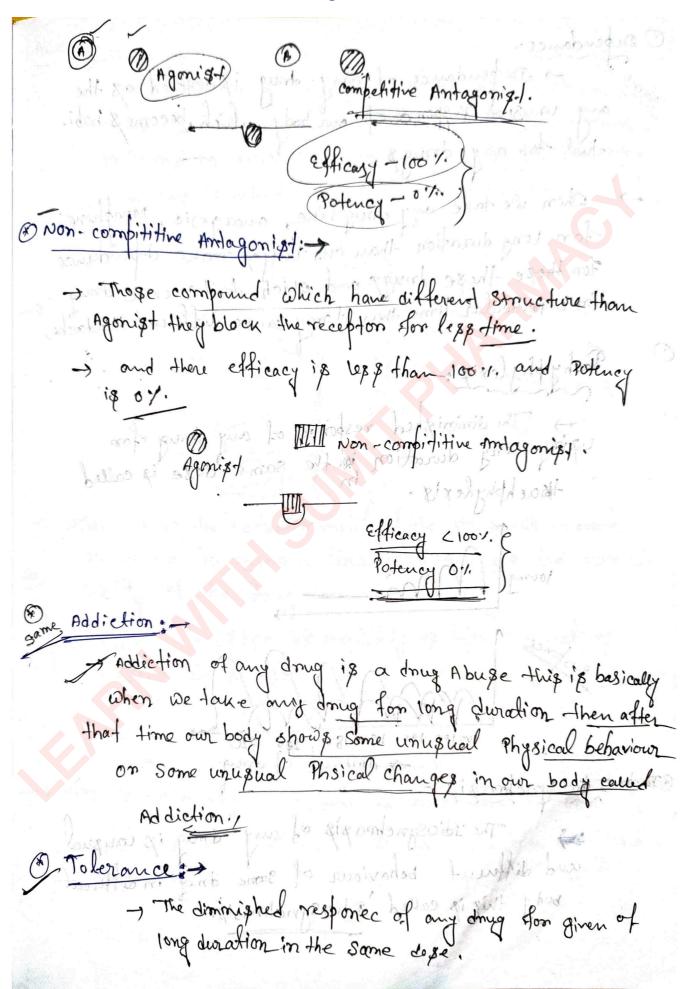
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A better learning future starts here! Polency: The effect of Any drug Produce after binding with the receptors. Alto he fued and no last afis allow or extend B'Drug is more Potent than A' Drug Peceplon Antagonist: 20 0 000 -> And ag onight we thouse molecule which have Similar structure like agonize but they don't give Pharma Cogical responce. - The Amfagonise give opposite Action of Agony and they blocked the Receptor. Actilcholine No Responce There efficacy is 100% and there gotency is

-> 9 + 14 +00 type -

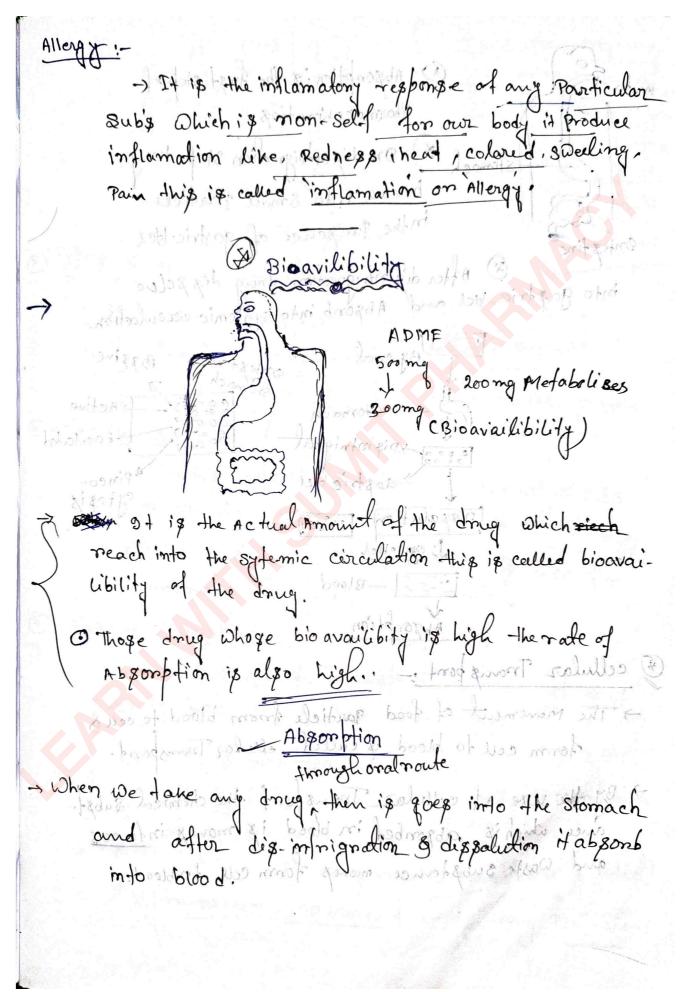
Non-competidine () ob to stimit 3

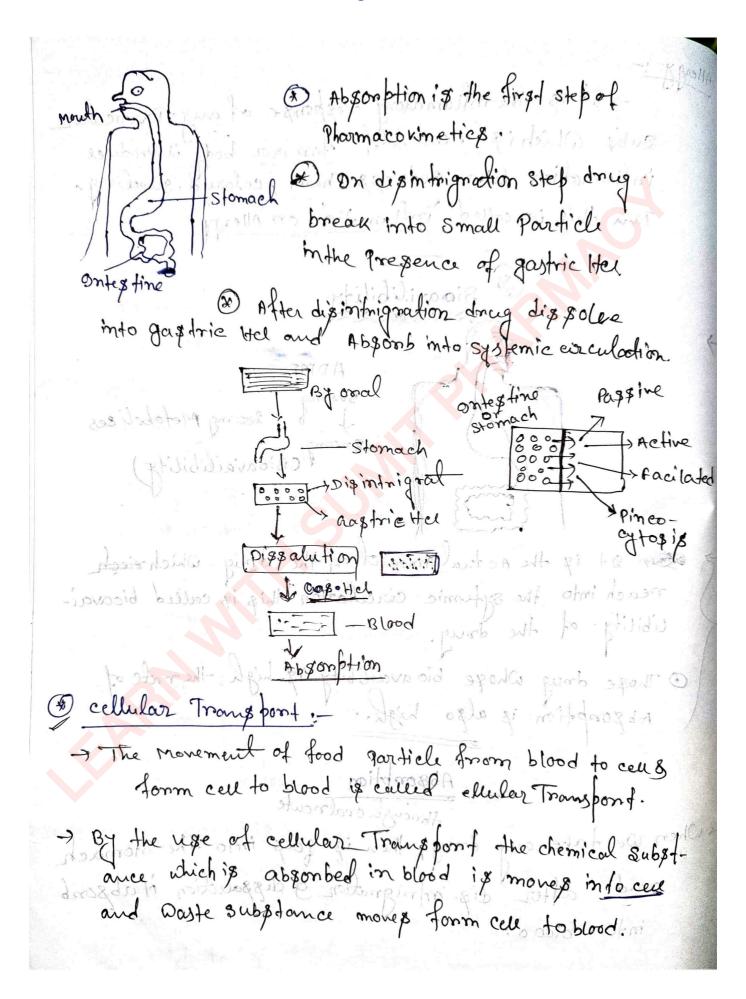
of compeditive :--> competitive Antagonist are those molecule which have similar structure to the Agonist. O There efficacy is 100% and there Potency is

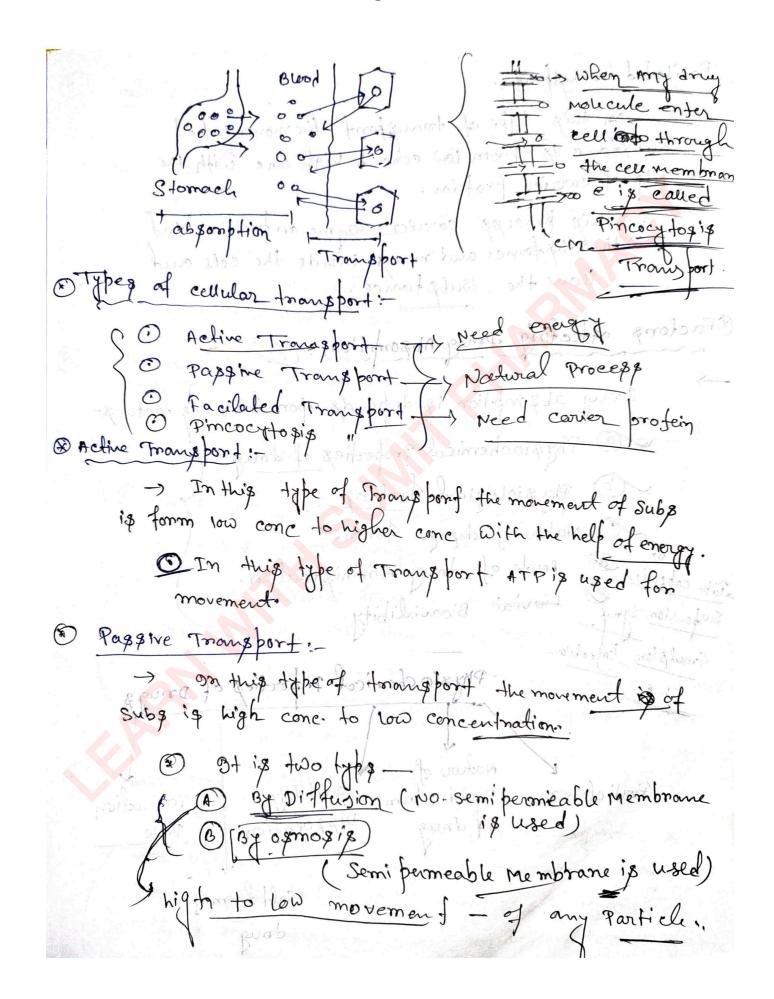


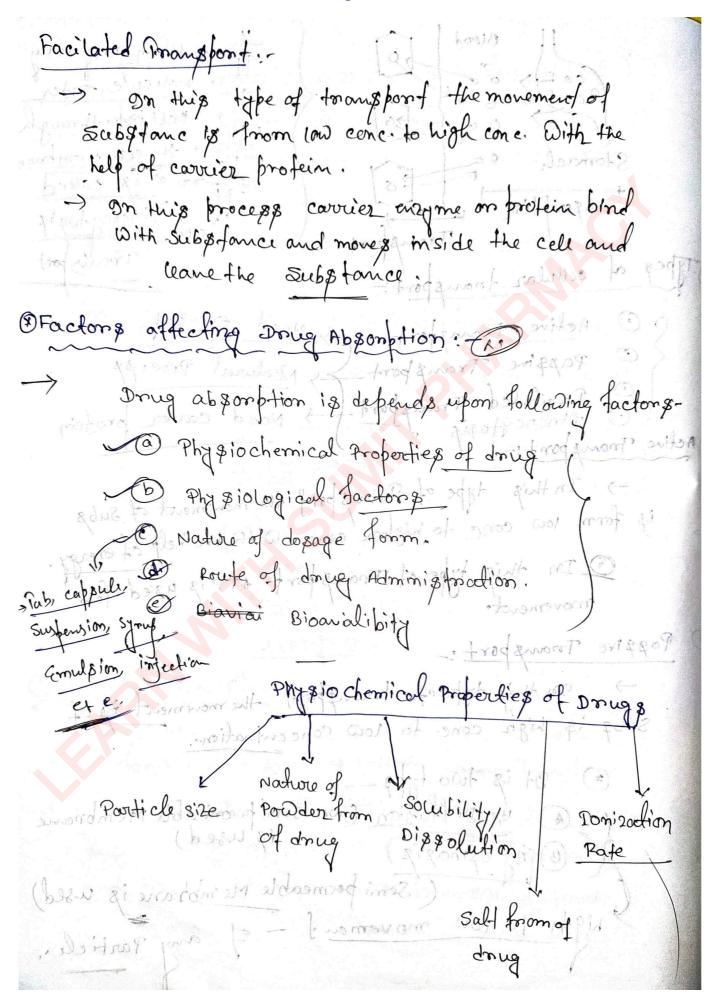
A better learning future starts here! O Dependance: De bendance of any drug is defined as the any unusual response of our body which becomes hab; tual for any drugs. -> When we take any drug like, anargesic, Monthine for long duration than our body ex make dependance For those these drugs and which don't receive drug in a particular time then It may cause different Headache Pachy phylexis :-The diminished response of any drug for uping long dwarf on in the same doge is called thachphylexis. 100 120 140 160 180 200 210 Amour. The IdioSynchrasis of any drug is unusual and different behaviour of same drug in di

bod this is called Idio synchrasis in









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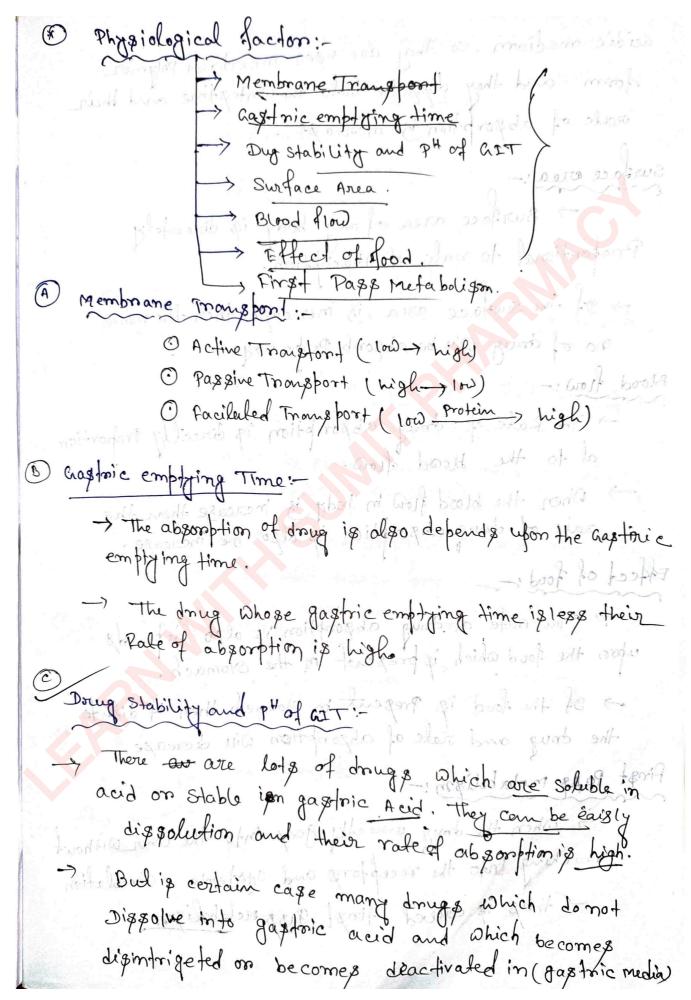
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part still may not trad to mildrands Particle Size:> > The absorption of drug is inversely Proportional to the Particle Size. -> As well as the Particle size of drug is increase the rate of absorption is decrease. And When the Particle size is decrease then the Pale of absorption is high. B) Nature of Powder from of drug :- mit-The nature of any Powder is of two types Amonphus or crystaline. The Amorphus Powder is dissolve very easily because it takes lesse energy And in engstaline form they require high energy for dissolution because, they have crystal latic structure. so the Rock of Absorption is the high for Amporphus Powder and the rate of Absorption is very bys cow for empstaline Powder. Solubility Dissolution ... This specioustib from -> The rate of absorption of any drug is also defends on the solubility factor because are owne own gastric is hydrophilic in noduce so hydrophilic drug more disposatore eaisly can dispolve into the gastric Hed than lipophilic drugt. so, the rate of

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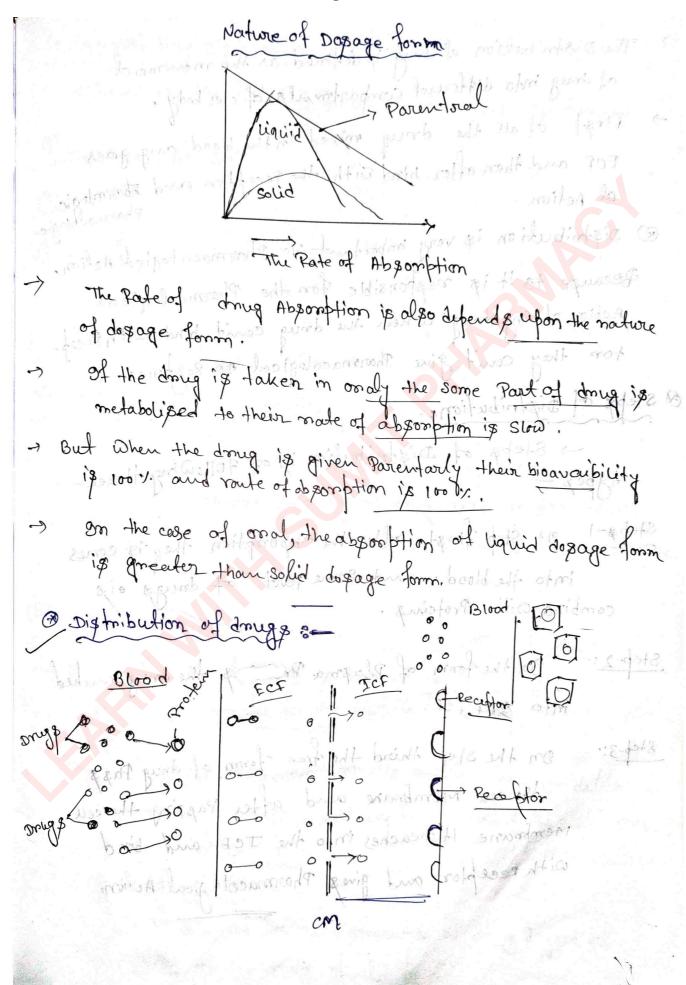
absorption is high for hydrophilic drug and the rate of of absorption is low for lipophilic drug. y Strong Acidic -Salt form of drug: -> Drug Acidic -> Weake Sosie acidic x >> Basic >> Strong Basic ~ Weak Basic X The Strong Acidic on Strong Basic drug can easily dissociate into the solvent. so their dispolution rate and absorption rate is very high but in the case of weak acidic and weak basic drug their dissociation rate is slow so the absorb very slowly. But when it convert the weak acidic and weak Basic drug into salt form them their rule of dissociation 18 in crease and their nate of absorption is also increase Ionization Raje: --> Those drug which are in 'some form they can be dispolve eassif but they could cross the cell membrane. -) Bud in the case of non-ionie form of Drug the can't dissociale easily but thier rate of absorption -) so we make any drong in such a way at the time of dissolution they are in ionic form and at the situation than time of absorption they should be in nonionic form.

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acidic mediam, so they are uses incertain Polymer form and they dispolve indo the intestine and their rate of absorption is moreage surface orea! -> surface area of any body is directely Proportional to rate of Abgorption. -> 97 the surface area is increase then the more no of drug Diu be absorb Propor Day. Blood flow: --) The Rate of drug absorbation is directly Proportion al to the blood flow. -> When the blood from in body is increase then the rate of drug absorption is also be increase. Effect of food :-The nate of doing absomption is also depends whom the food which is present in the stomach. -> 3f the food is Present in Stomach then if dilute the drug and rate of absorption will decrease First Pass metabolism: oire to be made of dates as prop) when the drug diore colly goes into the liver without reaching into the receptors and 378 temic circulation this is called finst Paps metaboligm.



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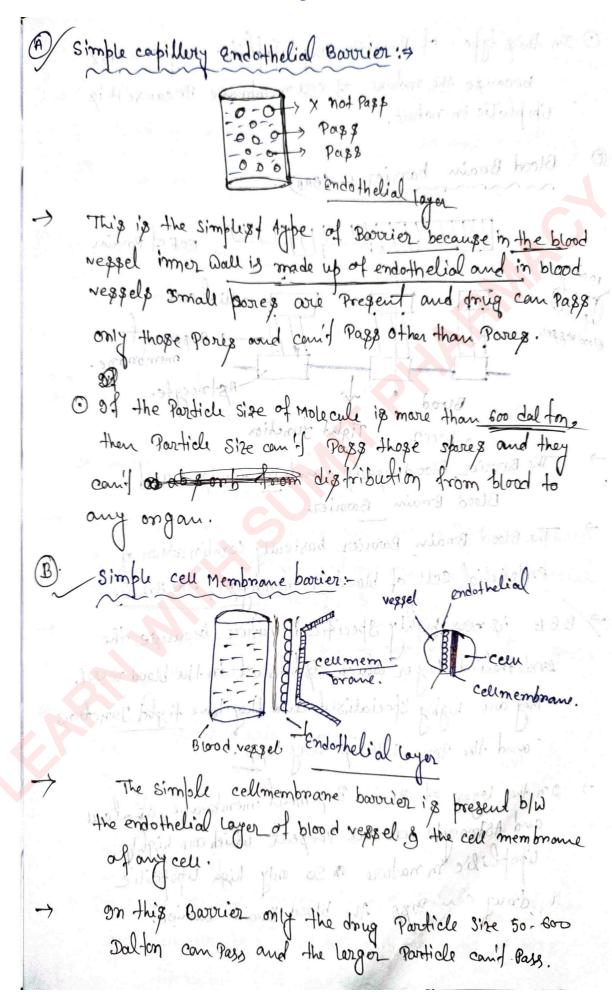
- > The Distribution of drug is defined as the movement of drug into different compartments of our body. -> first of all the drug mixed in the blood any goes ECF and then after bind with the Receptors and Bharmacologic
 Pharmacologic @ Distribution is very important to Phonmaco logical Action, Decause to it is responsible for the Pharmcalogical Action of Any drug when the drug court bind with Receptor they can't give Pharmacological tou Responce. @ Steps of Distribution .. -> Steps of Distribution is of following theree-Step 1-1 2+ Step first after the absorption they is comes into the blood and some part of drugs ois combine with Proteins. Step-2: - Don the form of Plasma Proteins the drug reached into got JcP.
 - Step-3: On the Step third the free form of drug Page the cell membrane and after Papping the cell membrane it reaches into the ICF and bind with Receptor and gives Pharmacological Action,

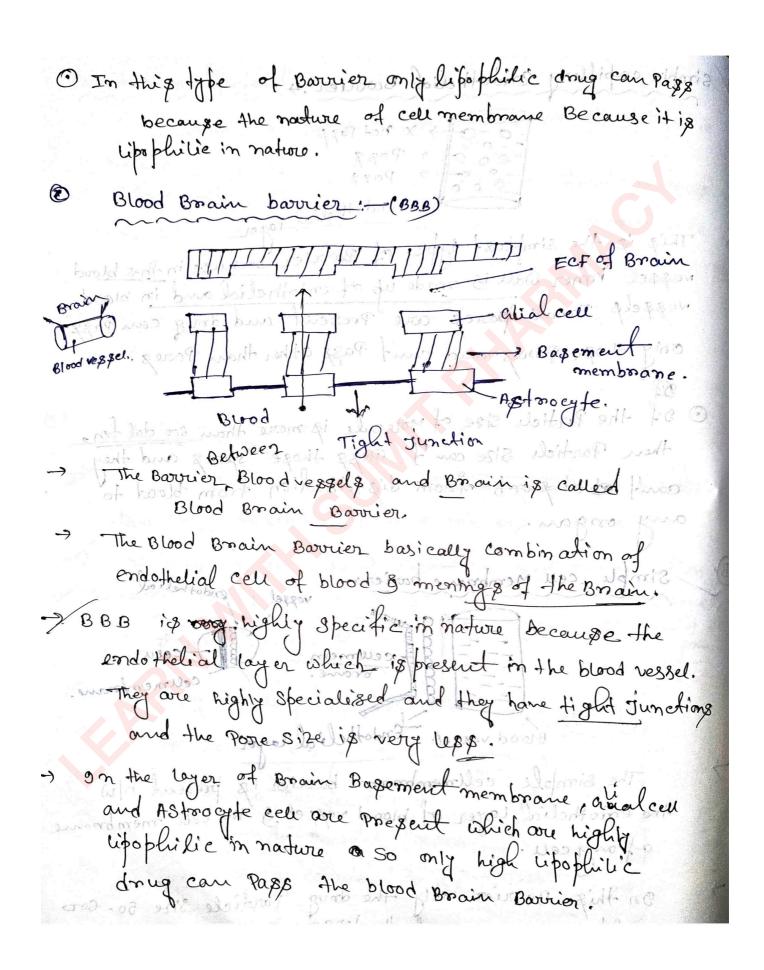
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Factor Affecting Distribution: These are the following factor of affecting distribution. Physiological Rectand rowing one chemical properties Plasma protein binding Molecule Size Molecule Size Molecule Size Molecule Size Molecule Size Physiological Properties: The distribution of drug is also depends upon the Physiochemical Property of drug like, it pka value Physiochemical Property of drug like, it pka value Physiochemical Protects Size, Acidic mature, basic nature etc. Molecular Size: Molecular Size: The molecular Size is approx 500-600 Dolton is Permeable for the distribution of T
The physiological backens worth. Physiological backens worth. Physiological profess properties Physiological properties Physiological properties Partition coefficient. The distribution of drong is also depends upon the Physiochemical property of drong like, it pka value Physiochemical property of drong like it pka value Physiochemical physiochemical property of drong like it pka value Physiochemical physioc
Drong Degree of ionization chemical Partition coefficient. a) Physiological Properties:- The distribution of drong is also depends upon the Physiochemical Property of drong like, it pka value?
Drong Degree of ionization chemical Partition coefficient. a) Physiological Properties:- The distribution of drong is also depends upon the Physiochemical Property of drong like, it pka value?
Drong Degree of ionization chemical Partition coefficient. a) Physiological Properties:- The distribution of drong is also depends upon the Physiochemical Property of drong like, it pka value?
Drovey Degree of ionization Chemical Partition coefficient. The distribution of droug is also depends upon the Physiochemical Property of droug like, it pka value, Physiochemical Property of droug like, it
chemical Partition coefficient. The distribution of drug is also depends upon the Physiochemical Property of drug like, it pka value, Ph
The distribution of drug is also depends upon the Physiochemical Property of drug like, it pka value, Physiochemical Property of drug li
Physlue, its Particle Size, Acidic mature, basic nature etc. Molecular Size:- The molecular Size is approx 500-600 Dalton is remeable from the distribution of
Molecular Size: The molecular Size is approx 500-600 Dalfon is Permeable for the distribution of
Dalton is Permeable for the distribution of
palton is remeable for the distribution of
the days
It the molecular Size is greater than 600 dalton
them it can't Page cell memberane and the distribution
Blood Placeula Barries (PCPS) . Margor For Z.
Degree of ionization:
for the better distribution of drug degree of
ionization of the drug should be low.

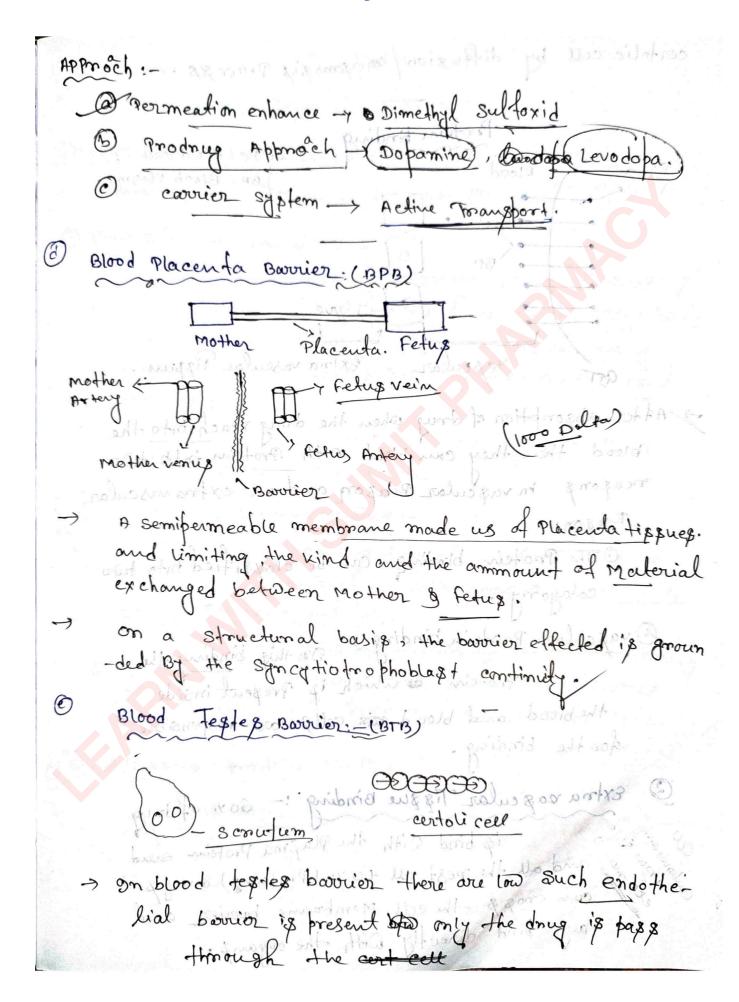
Partition co-efficient:
-> Drugs are generally Hydrophilie on top 176 hophilie
-) It drives one bypophilic in nature they can enough
the cell membrane simply because our cell membrane
is made up snom phospholipid and cellulope.
→ 9f the drugs hydrophilie in nature they can't cross the cell membrane Simply.
the certification of
Physiological Barrier:
Physiological Borrier are those Boorier which inhibi
the free movement of druy into organ directly.
It decreage the nate of absorption and Distribution The nature of Physiological barrier is different in different
The nature of Physiological barouer is different in different
Drug Bowrier, si seiz solves donn et de fférent
Simply capillery endothelial barrier (SCEB)
a tum brane Bourier (SCM B)
3100d brain Bourier (BBB) 1307 From
Blood Placenta Barrier (BPR)
@ Blood lestes Bourier (BTB) rottorinoi to soft sol
To sorre the best or distinction of drug degree of

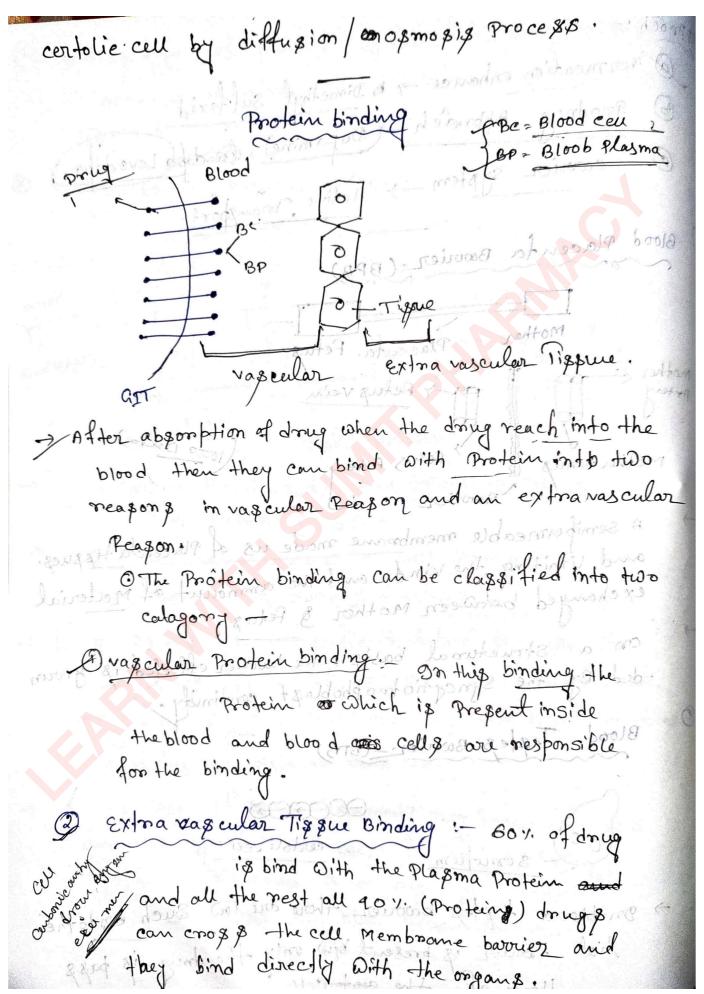
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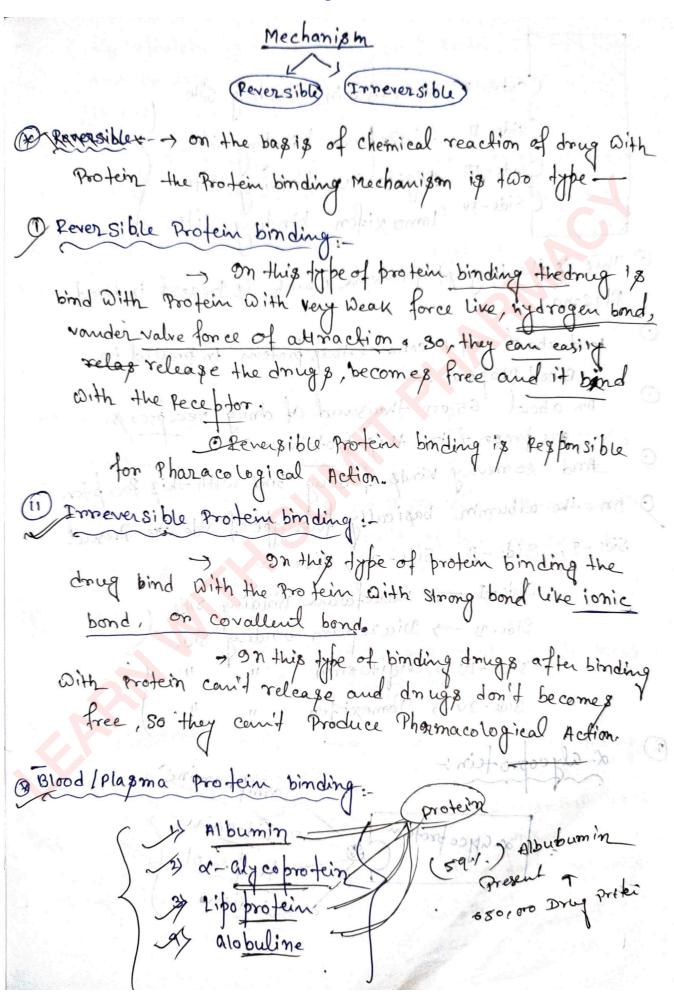




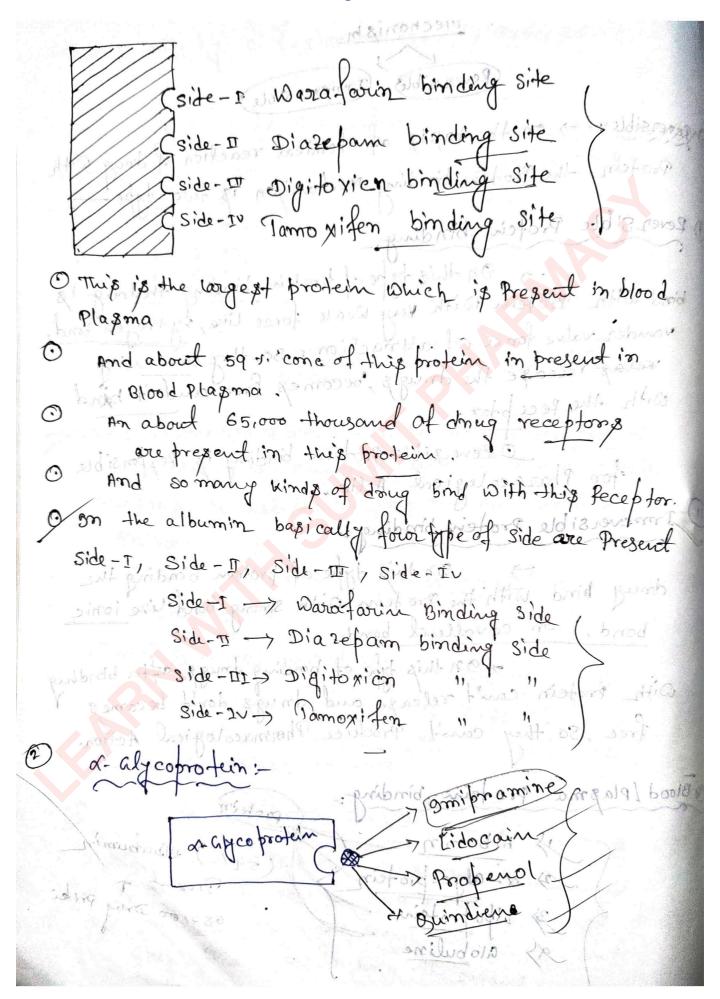
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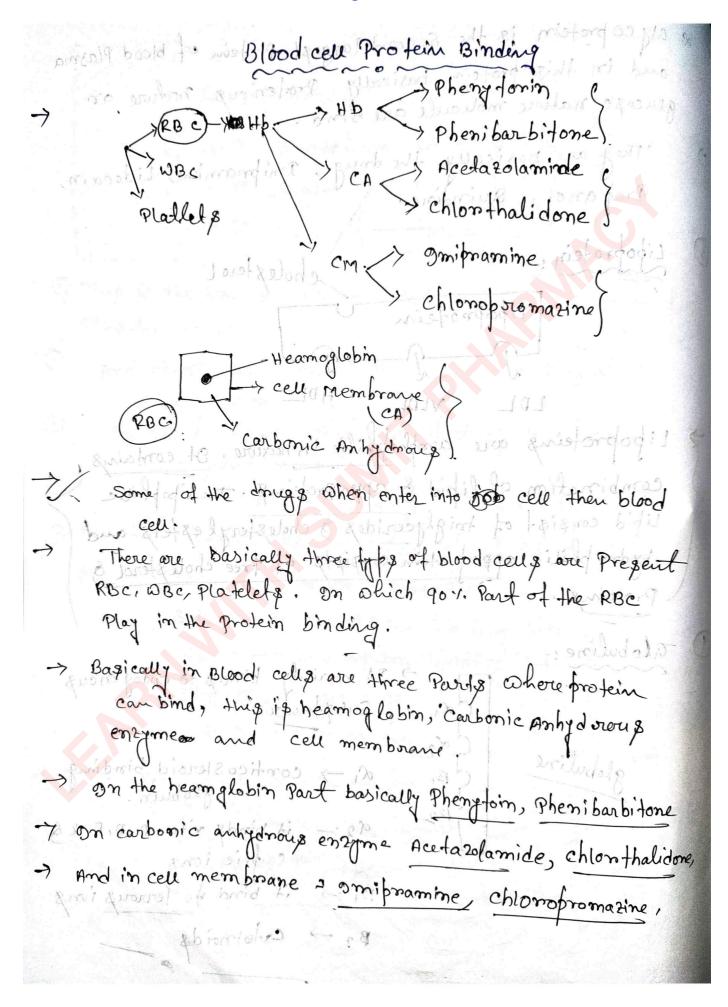
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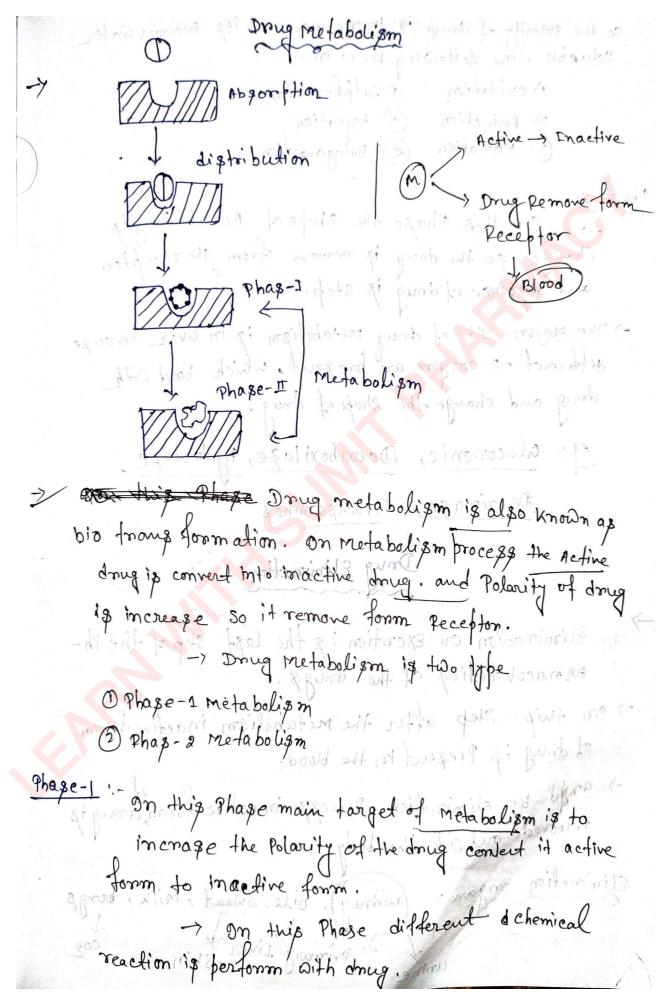
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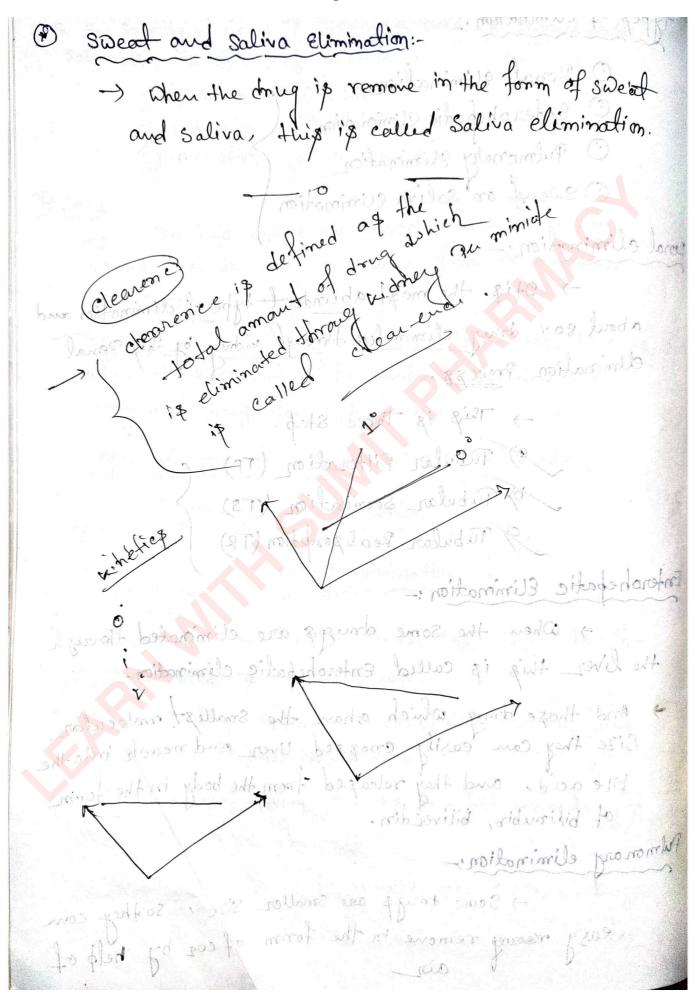
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so the Polarity of drug is increase and its becomes water solvable. The following reaction -
> oxidation @ sulphomation
3) Nitration (5) Acylation (3) Nitration (6) Haloginaudion
Phase-2
On this Phase the Shope of Actual drug is Change so the drug is remove from the receptor
and response of drug is stop.
-) The Major site of drug metabolism is in liver because
different - a enzyme are present, which bind with
of the Majors site of drug metabolism is in liver because different - a enzyme are present, which bind with drug and change the Shape of drug.
9:- alucononic, Decarborilage, Hydrolage,
De anima se, Transamines
De anima se, Transamines Transamines Drug Elimination
drug is convert inditional Eliminational frances of grand
drug is convert inditional Eliminational frances of grand
drug is convert inditional Eliminational frances of grand
Elimination or exention is the last step of the Ph- en macokinetics of the drugs.
Drug Elimination: Step of the drugs. The last step of the drugs. The step after the metabolism inactive form of drug is Present in the blood.
Drug Elimination: Step of the drugs. The last step of the drugs. The step after the metabolism inactive form of drug is Present in the blood.
Drug Elimination Elimination on Exention is the last step of the Pheurmacokinetics of the drugs. The step after the metabolism inactive form of drug is Present in the blood. And by elimination process inactive form drug is removed out side the body
Drug Elimination Elimination on Exention is the last step of the Pheurmacokinetics of the drugs. The bold is the step after the metabolism inactive form of drug is Present in the blood. And by elimination process inactive form drug is removed out side the body
Drug Elimination: Step of the drugs. The last step of the drugs. The step after the metabolism inactive form of drug is Present in the blood.

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Types of elimination: O Renal elimination O Enderohepadic climination O Pulmonaty Elimination O sweat on Saliva Elimination fenal elimination: -> Dtis the most abundent type of elimination and about 80% drug eliminated through kidney by this Renal elimination Process -> This is three Step. a) Tubular Filteration (TF) Tubular Secreation (TS) 9 Tubular Reabsorption (TR) Enterohepatic Elimination: , when the some drugs are eliminated through the liver this is called Enterohepatic elimination. -) And those drug which whave the smallest molecular Size they can easily enopped liver and neach into the bile acid, and they released from the body in the form of bilinubin, biliver din. Pulmonary elimination: -) Some drugs are smaller size, so they can easy resorms remove in the form of cor by help of



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