Тор	ic Tharmaceutics I (theory) 2 nd sessional pacquestion papers Page No
(I)	Short Notes
Andjo	It is a phormacultical perocess that throughly mixes a small and of API with the large amount of encipents. This technique ensures equal distribution of drug throughout the resulting compound.
	Hygeroscopic powder - These are those powders which absorbs moisture from the atmosphere are called hygroscopic powder lg - ammonium chloricle, pepsin, Nacl etc.
	Effervesenet powders: These are those powders which loses water to form a lower hydrate or become amhydrous is termed as refervusas. These are present in crystal form. Ex - Sodium corbonate.
Ano4+	These we those powders which are meent to introduce into body cavifies (like ear, mose, vaging, etce) with the help of device named insufflater. These powders weed called insufflation ex: Nitrous oxide.
	This the mixture of two solid powders in which their melting pt. is preduced due to mixing and the mixture convent into liquid at room temperature eg camphox & thymol.
An86-	Tetracyline + Milk are incompatible. Section -B
Ans 7-	Short Exsay There are those techniques which are used to Increase the solubility of any drug I solute. If their sobulity is less in agreeous medium. Varyous tochnique are given below:
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	Тор	ic
	→	pH Change: This may be done after by salt formation or addition of buffer to the formulation.
		addition of buffer to the formulation.
	7	Co solvest. This is used to dissolve poorly soluble drugs in a Tiguid thase by the help of it
	7	Particle Size reduction: Particle size anduction is inversely peropositional to solubility less the particle size, more solubility is the drug.
		peropositional to solubility less the particle size, more solubly
	7	Emusifing agent: These are added two descrease the suferficial tension between the two layer of emusion.
)	Suspending agent: These are added to increase the solubility of the
	9	Complexations: it is the process of association of a or more molecules to form non-bonded entity. Ex chelates - EDTA
A	188	Suspending agents are also called thickening agents are used to Stabilizer suspension area hydrophillic colloid substance thant
		Spontaneousely form cooloidal dipersion with water because of an
		affinity dispersion with the water between the dispersed particles and dispersed medium.
		They pelp in lowering the sedimentation make of posticles in the
		Suc hen sion
		The sedimentation scale is slowed down by increasing viscosity a liquid vehicles and slowingdown settling in accordance to stokes
		The beaut & auchine of the base & sushanian Majoritu used as
		They prevent cracking at the base of suspension. Majority used as excipients to help active than maceutical inquidents. Stay suspended to in ant's
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	Topi	Brilliant's Page No3
		Date
		to formulations Ex -Bentonik, tragacouth, kaalin
		There are 9 & types.
	0	poly saccharide - Acacia, Tragacanth, starch.
	2	Inorganic Salls - Kaalin, Bentenatite.
	3	Synthetic Compound - Carboners, Colloidal Silicon di exide.
An	49)	Excipients are used in preparation of drug dosage from tomake
		bulk. These have little or no thearing pentic value but they are
		used in the pereparation and compounding of several pharma centical
		formulations.
	1-	Sweetening agents
	J.	
	3.	Anti Oxedidants
	4.	Byters
	5.	1 lowowing agents
	6.	
		Colouring agents
	8.	Co:- solvents.
		Sweetening agents: Then are used to mask the unpleasant tasted the drug eg - sucrose.
		Les le a the drug eg - Sucrose.
		Instragion of
	2.	Vehille: These are used to as solvents in presponation of liquid dosage form. lg - avuator.
		dosage form. lg - seventer.
	3.	Anti-Oxidants: These are added to present the oxidation of the formulation during it's shelf life. eg-propionic acrol.
		formulation during it's shelf life.
		la - propionic acid.
	4.	Buffer These we added to prevent ph change
		Buffer + These we added to prevent ph change ignt's
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	District Williams	

Brilliant's Page No Topic 5. Flavouring agents's These ared added to form give colour to the jornulation to make it acceptable to the consumer and give it is a Sweet taste eg vanilla 6. Colouring agents = These are added to increase the accept may by the consumer by giving the colour to the formulation 7. Preservative: These are added to increase the shelf life Ex chloroform 8. Co-solvent: These are added to increase the solubility of API Puto the excipient en - propylene glycol. Section-C Il Long Essay Ansio + Powders we pharmaceutical persparation of finely divided solid day particles, containing the gor more active ingridunts with or without encipients. They may be intended for internalor enformal use. Classification of powders: Based on particle size Based on lises. Based on physical form. Based on particle sixe Very Garse powder -> Particles passes through sieve no. 8 Course powder -> Particles passes through sivere no 20 Moderakly Course porander > particlespasses through Sieve no. 40 Fine Pander -> Particles passes through seiene no .60 Very fine powder -> Particles passes through sixere no. 80.

Тор	ic Date
	Based on uses
-3	Internal use
	External use.
-	Internal USI & It consist of drugs in the form of powder intended to be swall owed directly or with water these can be taken
	orally.
_	Simple powder
-	Compound powder.
	- Hat Calair make linderedicuts
-	Simple powder : These powder that contain only ing
	Simple powder: These powders that contain only linguedients either in oxystalline or amorphous form.
	C 'ST . I HAT ON MORE
-	Columpound powder: hest powder that content
	Courapound powder's These powder that contain two or more than two ingredients (APT).
	External use = Powders for external use are pharmaceutical proportation consisting of solid, loose, dry particles of varying degree of linemess.
-	External use - rowald losse dry particles of varying
	the postation consisting of the
7	Dusting powders
,	Surgical powders
-)	Dentifrices.
7	
-	Dusting Powder: These powder are very jine, free flowing powder meant for application to un broken Skin. A good dusting powder include
	meant box application to un broken Skin. A good dusting powder includ
	ease a flow
-	Non-irratibility
	C - d Clability
-	C . ID Wis The also while I dust ha howard wisting
	clearly broduct intended to be used on the year
-	Dentifrices: These are used for the Cleaning of tooth / took Cleaning bound
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То	Page No Date
	Based on Physical Form't
→ →	Bulk powders Divided powders.
	Bulk Powders: These powders refer to a mixture of materials packed into peroperty designed bulk contains such as light, wide-mouthed glass/plastic bottle and used internal or external.
	Divided powders: These powders are single doses of powered drug mixtwees. in divided powders each dose of medicament is separately pucked and dispensed to patient. accurate dose is their.
	Other Powders: Eftervescent powder: These powders are the compliantion of ciblic acid, fartaric acid and sodium - bicarbonate. all these of are dissolved in water and conton-dioxide is released.
)	Efflorescent powder: These are crystallized pawders that contains water a hydration or crystallization and when they enposed to atmosphere. They partially or campletely release its water.
7	Hygrascopic powder: These are those which absorb mixture moisture from the atmosphere, although they absorb mixture but do not convert into liquid.
7	Deliquescent powder: These we those powders that absorb moisture to such a great entent that they convert into lequid form. Deliques powders have a very high affinity towards water.

	Brilliant's Page No7:
Тор	Date
Ansil	Incompatibilies occurs as a result of mixing of two or more antagonistic
	substances and an undesirable product is formed which may affect the sufety, efficacy and the appearance of the proparation.
	Types Types of the appearance of the proparation.
7	Chemical In compatibility
7	Physical Incompalibility
7	Theusapeutical In compatibility
-	Chemichal Incompatibility: result as a reaction of ingeredants
	to form a toxic or inactive product outside the body
	by exidation
	Reduction
	Mydrolysis (a) 15 die Rockie
	Ex- Colour Change explution & CO. B. Acid-Bake reaction
	Ex-Colour Change, evolution of Co. The Acid-Bake reaction precipitate.
+	Physical Tomompatility = Two or more Indevidents added physical
	Carros Changes such es colour change stale change Viscosity ?
	Change. Immiscibility Insolubility
	Immiscibility.
	Precipitation
	Lique fication.
->	Therapeutical incompatility: These occur after consumption is side the
	body This occur due to
	7 Errorindosage 3 Deug Interaction
	- worong dose eg-Tetracycline should not be taken
	Thombra indicated arings with milk.
	Synergistic & Antagonistic
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