S.D.College of Pharmacy (245) Janaula, Pataudi (Gurugram) Lesson Plan

Name of the Faculty : Jaipal Singh

Discipline : Pharmacy

Year : 2nd year

Subject : Pharmaceutics-II

Lesson plan duration : weeks (16th July.2018 to April 2019)

Work load : Theory -Lecture 03hours / week, Practical- 03 hours / week

Week	Theory	1	Practical			
	Lecture Day	Topic (including assignment / test)	Covered Date	Practical Day	Topic	Covered Date
1.	1	Prescriptions - Reading and understanding of prescriptions			Introduction of Powders	
	2	Prescriptions - Reading and understanding of prescriptions				
	3	Prescriptions - Latin terms commonly used				
2.	1	Prescriptions - Modern methods of prescribing,			Oral divided Powders (Aspirin + Paracetamol)	
	2	Prescriptions - adoption of metric system.			Four powders	
	3	Prescriptions - Calculations involved in Dispensing				
3.	1	Test			Oral divided Powders	
	2	Incompatibilities in prescriptions- study of various types of incompatibilities-physical			(Aspirin + Paracetamol +Caffeine)	
	3	Incompatibilities in prescriptions -study of incompatibilities-Chemical			Eight powders	
4.	1	Incompatibilities in prescriptions -study of incompatibilities-Therapeutics			The Compound Magnesium Trisilicate Oral Bulk powder	
	2	Assignment on Incompatibility			(25 gm)	
	3	Posology- Dose and dosage of drugs				
5.	1	Posology- factors influencing dose			The Compound Calcium Carbonate Powder	
	2	Posology - calculations of doses on the basis of age, sex, surface area and veterinary doses			(50gm)	

	3	Test	
6.	1	Powders-Type of powders	The compound NaCl and
	2	Powders- Advantages and disadvantages of powders	Dextrose Powder (22gm)
	3	Powders- Granules, cachets and tablet triturates	
7.	1	Powders- preparation of different types of powders encountered in prescriptions	Compound Powder (20 gm) Menthol+ Camphor+
	2	Powders- Weighing methods, possible errors in weighing	NH₄Cl+ Light Mag. Carbonate
	3	Powders- minimum weighable amounts and weighing of a material below the minimum weighable amount	
8.	1	Powders- geometric dilution and proper usage and care of dispensing balance	Dusting Powder (50gm) (Talc+ Starch+ ZnO)
	2	Test	(Tale) Statem 2110)
	3	Liquid oral Dosage forms: Monophasic- Theoretical aspects including commonly used vehicles	
9.	1	Liquid oral Dosage forms: Monophasic- essential adjuvant like stabilizers, colorants and flavors, with examples	Dusting Powder (20gm) (Salicylic Acid+ Starch+ ZnO)
	2	Liquid oral Dosage forms: Monophasic- Mixtures and concentrates, Gargles	2110)
	3	Liquid oral Dosage forms: Monophasic- Syrups	
10	1	Liquid oral Dosage forms: Monophasic- Mouth washes	The Compound Tragacanth Powder (50gm)
	2	Liquid oral Dosage forms: Monophasic- Throat-paints, Elixirs	
	3	Liquid oral Dosage forms: Monophasic-Douches Ear Drops	
11	1	Liquid oral Dosage forms: Monophasic- Nasal drops Sprays	Introduction of Capsules
	2	Liquid oral Dosage forms: Monophasic- Liniments, Lotions	
	3	Test	
12		1 st Sessional	
13	1	Biphasic Liquid Dosage Forms: Suspensions- Suspensions containing diffusible solids and liquids and their preparations	Haematinic Capsules (7 caps.)

14	2	Biphasic Liquid Dosage Forms: Suspensions- Study of the adjuvant used like thickening agents, wetting agents, their necessity and quantity to be incorporated Biphasic Liquid Dosage Forms: Suspensions- Study of the adjuvant used like thickening agents, wetting agents, their necessity and quantity		daematinic Capsules (7 aps.)
15	1	to be incorporated Biphasic Liquid Dosage Forms: Suspensions- suspensions of precipitate forming liquids like tinctures, their	11	ntroduction of Mixtures
	2	Biphasic Liquid Dosage Forms: Suspensions- suspensions of precipitate forming liquids like tinctures, their preparations and stability		
	3	Biphasic Liquid Dosage Forms: Suspensions - An introduction to flocculated /non-flocculated suspension system.		
16	1	Test	S	Simple Mixture (100ml)
	2	Biphasic Liquid Dosage Forms: Emulsions-Types of emulsions		Ferric Ammonium Citrate+ Chloroform Water
	3	Biphasic Liquid Dosage Forms: Emulsions- identification of emulsion system		
17	1	Biphasic Liquid Dosage Forms: Emulsions- formulation of emulsions		Simple Mixture (15ml) Sodium Salicylate + NaHCo ₃₊
	2	Biphasic Liquid Dosage Forms: Emulsions- formulation of emulsions		odium metabisulphite+ Chloroform water
	3	Biphasic Liquid Dosage Forms: Emulsions- selection of emulsifying agent		
18	1	Biphasic Liquid Dosage Forms: Emulsions- Instabilities in emulsions, preservation of emulsions.	N	Simple Mixture (15ml) NH4Cl+NH ₄ HCo ₃ +Liquid
	2	Test		extract of Liquorice Chloroform Water
	3	Semi-Solid Dosage Forms: Ointments: Types of ointments		
19	1	Semi-Solid Dosage Forms: Ointments: classification and selection of dermatological vehicles		Mixtures containing Diffusible Solids (90ml)
	2	Semi-Solid Dosage Forms: Ointments: reparation and stability of ointments by – Trituration, Fusion	N	ight mag. Carbonate + Mag. Sulphate +Peppermint Vater

	3	Semi-Solid Dosage Forms: Ointments: reparation and stability of ointments by - chemical reaction Emulsification	
20	1	Presentation on Emulsion	Mixtures containing
	2	Semi-Solid Dosage Forms: Pastes: Differences between ointments and pastes, Bases of pastes	Diffusible Solids (60ml) Mag. Trisilicate + NaHCo3 + Light Mag. Carbonate +
	3	Semi-Solid Dosage Forms: preparation of pastes and their preservation	Peppermint Water
21	1	Semi-Solid Dosage Forms: Jellies: An introduction to the different types of jellies and their preparation.	Mixtures containing In- Diffusible Solids (30ml)
	2	Semi-Solid Dosage Forms: An elementary study of poultice.	
	3	Test	
22	1	Suppositories and peassaries-Their relative merits and demerits, types of suppositories	Introduction of Emulsion
	2	Suppositories and peassaries- suppository bases, classification	
	3	Suppositories and peassaries- properties. preparation and packing of suppositories	
23		Winter Vacation	
24		2 nd Sessional	
25		2 nd Sessional	
26	1	Suppositories and peassaries- Use of suppositories of drug absorption.	O/W type emulsion for internal use (30ml)
	2	Dental and cosmetic preparations: Introduction to Dentifrices	Castor Oil + Water
	3	Dental and cosmetic preparations: facial cosmetics	
27	1	Dental and cosmetic preparations: facial cosmetics	O/W type emulsion for internal use (60ml)
	2	Dental and cosmetic preparations: facial cosmetics	Olive oil + Water
	3	Dental and cosmetic preparations: facial cosmetics	
28	1	Dental and cosmetic preparations: Deodorants	O/W type emulsion for Oral use (50ml)
	2	Dental and cosmetic preparations: Antiperspirants	Liquid Paraffin +Water

	2	Dental and cosmetic preparations:	
	3	shampoo,	
		Shampoo,	
29	1	Dental and cosmetic preparations:	Introduction to Semi- Solid
	_	Hair dressings and Hair removers.	Dosage form
			Dosage form
	2	Dental and cosmetic preparations:	
		Hair dressings and Hair removers.	
	3	Test	
		D 4 11 6 DC:	
30	1	Parenteral dosage forms: Definition, Types of parenteral formulations	The Calamine Ointment
	2	Parenteral dosage forms: General	(50g)
	2	requirements for parenteral dosage	
		forms	
		Tomis	
	3	Parenteral dosage forms: General	
		requirements for parenteral dosage	
		forms	
31	1	Parenteral dosage forms: vehicles,	Absorption Ointment Base
		adjuvant	(50gm)
		Donontovol dosogo formes processing	
	2	Parenteral dosage forms: processing	
		and personnel	
	3	Parenteral dosage forms: Facilities	
	,	and quality control.	
32	1	Parenteral dosage forms: Preparation	The Ointment (50gm)
		of Intravenous fluids and admixtures	
	2	Parenteral dosage forms Total	Zno+ Simple Ointment
		parenteral nutrition,	
	2	Parenteral dosage forms Dialysis	
	3	fluids	
33	1	Sterility testing: particulate matter	Prepare 50 gm of
		monitoring- Faculty seal packaging	Emulsifying Ointment
	2	Test	Linuishying Onlunent
			Emulsifying Wax + Liquid
	3	Ophthalmic products: study of	Paraffin + White Soft
		essential characteristics of different	Paraffin
		ophthalmic preparations	
2.4		Ophthalmic products: Formulation:	Dranara 50am Wasi Alashai
34	1	Opinnalinic products: Formulation:	Prepare 50gm Wool Alcohol
	2	Ophthalmic products: additives,	Ointment
	~	F-Marine Production additions,	
	3	Ophthalmic products: special	
		precautions in handling and storage of	
		ophthalmic products	
35		3 rd Sessional	

36	1	Revision		Introduction To Monophasic Liquid Dosage	
	2	Revision Form			
	3	Revision			
37	1	Revision		Evacuant Enema (100ml) Soft Soap + Purified Water	
	2	Revision			
	3	Revision			

Name and sign. of Lect.

Name and sign. of Principal