

S.D.College of Pharmacy (245)

Janaula, Pataudi (Gurugram)

Lesson Plan

Name of the Faculty : Mr. Abhishek

Discipline : Pharmacy

Year : 2nd year

Subject : Pharmaceutical Chemistry-II

Lesson plan duration : Weeks (22 July 2019 to April 2020)

Work load : Theory -Lecture 04 hours / week, Practical- 03 hours /week

Week	Theory			Practical		
	Lecture Day	Topic (including assignment / test)	Covered Date	Practical Day	Topic	Covered Date
1.	1	Introduction to the nomenclature of organic chemical systems with particular reference to hetero-cyclic system containing up to 3 rings			Systematic qualitative testing of organic drugs involving solubility determination	
	2	The chemistry of following pharmaceutical organic compounds covering their nomenclature, chemical structure, uses and the important physical and chemical properties(chemical structure of only those compounds marked with asterisk (*). The stability and storage conditions and the different type of pharmaceutical formulations of these drugs and their popular brand names				
	3	Antiseptics and Disinfectants- Proflavine*, Benzalkonium chloride, Cetrimide				
2.		Antiseptics and Disinfectants- , Phenol, chloroxylenol, Formaldehyde solution, Hexachlophene, Nitrofurantoin			Systematic qualitative testing of organic drugs involving solubility determination	
		Test				
		Sulphonamides- Sulphadiazine, Sulphaguanidine, Phthalylsulphathiazole, Succinylsulphathiazole,				
3.		Sulphonamides- Sulphadimethoxine, Sulphamethoxyypyridazine, Co-				

		trimoxazole, sulfacetamide*				
		Test			File check and viva	
		Antileprotic Drugs- Clofazimine , Thiambutosine,				
4.		Antileprotic Drugs- Dapsone*, solapsonne			Systematic qualitative testing of organic drugs involving melting point	
		Test				
		Anti-tubercular Drugs- Isoniazid*, PAS*, Streptomycin, Rifampicin, Ethambutol*,				
5.		Anti-tubercular Drugs- Thiacetazone, Ethionamide, cycloserine, pyrazinamide*.			File check and viva	
		Test				
		Antimoebic and Anthelmintic Drugs- Emetine, Metronidazole, Halogenated hydroxyquinolines, Diloxanidefuroate				
6.		Antimoebic and Anthelmintic Drugs- Paromomycin , Piperazine*, Mebendazole ,D.E.C.*			Systematic qualitative testing of organic drugs involving melting point	
		Test				
		Antibiotics- Benzyl penicillin*, Phenoxy methyl penicillin*, Benzathine penicillin, Ampicillin*, Cloxacillin,				
7.		Antibiotics- Carbencicillin, Gentamicin, Neomycin, Erythromycin, Tetracycline			File check and viva	
		Antibiotics- Cephalexin, Cephaloridine, Cephalothin, Griseofulvin, Chloramphenicol				
		Test				
		Antifungal agents- Udecylenic acid, Tolnaftate, Nystatin				
8.		Antifungal agents- Amphotericin, Hamycin			Systematic qualitative testing of organic drugs involving boiling point	
		Test				
		Antimalarial Drugs- Chloroquine*,Amodiaquine, Primaquine				

9.		1st Sessional				
10		Antimalarial Drugs -Proguanil, Pyrimethamine*, Quinine, Trimethoprim			File check and viva	
		Test				
		Tranquilizers - Chlorpromazine*, Prochlorperazine, Trifluoperazine, Thiothixene, Haloperidol*, Triperidol				
11		Tranquilizers - Oxypertine, Chlordizepoxide, Diazepam*, Lorazepam, Meprobamate			Systematic qualitative testing of organic drugs involving boiling point	
		Test				
		Hypnotics - Phenobarbitone*, Butobarbitone, Cylobarbitone, Nitrazepam				
12		Hypnotics - Glutethimide*, Methypylon, Paraldehyde, Triclofosodium			File check and viva	
		Test				
		General Anaesthetics -Halothane*, Cyclopropane*, Diethyl ether*				
13		General Anaesthetics - Methohexital sodium, Thiopecal sodium, Trichloroethylene			Systematic qualitative testing of organic drugs involving detection of element	
		Test				
		Antidepressant Drugs - Amitriptyline, Nortriptyline, Imperamine*				
14		Antidepressant Drugs - Phepeline, Tranylcypromine			Systematic qualitative testing of organic drugs involving detection of element	
		Test				
		Analeptics - Theophylline, Caffeine*				
15		Analeptics - Coramine*, Dextro-amphetamine				
		Test				
		Adrenergic drugs - Adrenaline*, Noradrenaline, Isoprenaline*, Phenylephrine				
16		Adrenergic drugs - Salbutamol, Terbutaline, Ephedrine*, Pseudoephedrine			Systematic qualitative testing of organic drugs involving functional group	

		Test				
		Adrenergic antagonist- Tolazoline, Propranolol*, Practolol				
17		Test			Systematic qualitative testing of organic drugs involving functional group	
		Cholinergic Drugs- Neostigmine*, Pyridostigmine, Pralidoxime,				
		Cholinergic Drugs- Pilocarpine, Physostigmine*				
18		Test			Official identification tests for certain groups of drugs included in the I.P. like barbiturates	
		Cholinergic Antagonists- Atropine*, Hyoscine, Homatropine, Propantheline*				
		Cholinergic Antagonists- Benztropine, Tropicamide, Biperiden*.				
19		Test			Official identification tests for certain groups of drugs included in the I.P. like sulphonamide	
		Cholinergic Antagonists- Atropine*, Hyoscine, Homatropine, Propantheline*, Benztropine, Tropicamide, Biperiden*.				
		Diuretic Drugs- Furosemide*, Chlorothiazide, Hydrochlorothiazide*, Benzthiazide, Urea*, Mannitol*, Ethacrynic Acid				
20		2nd Sessional				
21		Winter Vacation				
22		Winter Vacation				
23		Cardiovascular Drugs- Ethylnitrite*, Glyceryltrinitrate, Alpha methyl dopa,			Official identification tests for certain groups of drugs included in the I.P. like Phenothiazines	
		Cardiovascular Drugs- Guanethidine, Clofibrate, Quinidine				
		Test				
24		Hypoglycemic Agents- Insulin, Chlorpropamide*, Tolbutamide, Glibenclamide, Phenformin*, Metformin			Official identification tests for certain groups of drugs included in the I.P. like Phenothiazines	
		Test				
		Coagulants and Anti coagulants- Heparin, Thrombin, Menadione*, Bisphydroxy-coumarin, Warfarin sodium				

25	Test				
	Local Anaesthetics- Lignocaine*, Procaine*, Benzocaine				
	Test				
26	Histamine and anti Histaminic Agents- Histamine, Diphenhydramine*, Promethazine,			Official identification tests for certain groups of drugs included in the I.P. like Antibiotic	
	Histamine and anti Histaminic Agents- Cyproheptadine, Mepyramine*, Pheniramine, Chlorpheniramine*				
	Test				
27	Analgesics and Anti-pyretics- Morphine, Pethidine, Codeine, Mathadone, Aspirin*			Official identification tests for certain groups of drugs included in the I.P. like Antibiotic	
	Analgesics and Anti-pyretics- Paracetamol, Analgin, Dextropropoxphene, Pentazocine				
	Test				
28	Non-steriodal anti-inflammatory agents- Indomethacin*, Phenylbutazone*			File check and viva	
	Non-steriodal anti-inflammatory agents- Oxyphenbutazone, Ibuprofen				
	Test				
29	Thyroxine and Antithyroids- Thyroxine*, Methimazole			Preparation of simple organic preparations	
	Thyroxine and Antithyroids- Methyl thiouracil, Propylthiouracil				
	Test				
30	Diagnostic Agents- Lopanoic Acid, Propyliodone, Sulfobromophthalein-sodium			File check and viva	
	Diagnostic Agents- Indigotindisulfonate, Indigo Carmine, Evans blue, Congo Red, Fluorescein sodium				
	Anticonvulsants				
31	cardiac glycosides			Preparation of simple organic preparations	
	Antiarrhythmic				

		Antihypertensives & Vitamins				
32		3rd Sessional				
33		Steroidal Drugs- Betamethasone, Cortisone, Hydrocortisone, Prednisolone, Progesterone, Testosterone, Oestradiol, Nandrolone			Preparation of simple organic preparations	
		Test				
		Anti-Neoplastic Drugs- Actinomycin, Azathioprine, Busulphan, Chlorambucil, Cisplatin, Cyclophosphamide,				
34		Anti-Neoplastic Drugs- Daunorubicin Hydrochloride, Fluorouracil, Mercaptopurine, Methotrexate, Mytomycin			File check and viva	
		Revision				
		Test				