

# S.D.College of Pharmacy (245)

Janaula, Pataudi (Gurugram)

## Lesson Plan

Name of the Faculty : Abhishek/Kapil Yadav

Discipline : Pharmacy

Year : 2<sup>nd</sup> year

Subject : Pharmacology and toxicology

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

Work load : Theory -Lecture 03hours / week, Practical- 02 hours /week

Week	Theory			Practical		
	Lecture Day	Topic (including assignment / test)	Covered Date	Practical Day	Topic	Covered Date
1.	1	<b>Introduction to pharmacology, scope of pharmacology.</b>			Effect of potassium and calcium ions, on frog's heart	
	2	<b>Routes of administration of drugs,</b> their advantages and disadvantages. Various processes of absorption of drugs and the factors affecting them.				
	3	<b>Routes of administration of drugs</b> Various processes of absorption of drugs and the factors affecting them				
2.		<b>Routes of administration of drugs</b> Metabolism, distribution and excretion of drugs			Effect of acetylcholine and adrenaline on frog's heart	
		Test				
		<b>General mechanism of drugs action</b> and their factors which modify drugs action				
3.		<b>Drugs acting on the central Nervous system:</b> General anaesthetics- adjunction to anaesthesia, intravenous anaesthetics			Effect of acetyl choline on rectus abdomens muscle of frog.	
		Analgesic antipyretics and non-steroidal				
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4.		Anti-inflammatory drugs- Narcotic analgesics			File check & viva	
		Anti-inflammatory drugs- Narcotic analgesics				

		<b>Test</b>				
5.		Antirheumatic and anti-gout remedies			Effect of acetyl choline on rectus abdomens muscle of guinea pig ileum	
		Antirheumatic and anti-gout remedies				
		Sedatives and Hypnotics				
6.		psychopharmacological agents			File check and viva	
		anticonvulsants				
		analeptics.				
7.		Centrally acting muscle relaxants			Effect of spasmogens on rabbits intestine	
		anti parkinsonism agents				
		Local anesthetics				
8.		<b>Test</b>			Effect of relaxants on rabbits intestine	
		<b>Drugs acting on autonomic nervous system</b> Cholinergic drugs, Anticholinergic drugs, anticholinesterase drugs.				
		Adrenergic drugs and adrenergic receptor blockers.				
9.		<b>1<sup>st</sup> Sessional</b>				
10		Neurone blockers and ganglion blockers. Neuromuscular blockers, used in myasthenia gravis			Effect of local anaesthetics on rabbit cornea	
		<b>Test</b>				
		Drugs acting on eye: Mydriatics, drugs used in glaucoma				
11		Drugs acting on eye: Mydriatics, drugs used in glaucoma			File check and viva	
		<b>Test</b>				
		<b>Drugs acting on respiratory system</b> Respiratory stimulants				
12		Bronchodilators			Effect of mydriatics on rabbit's eye	
		Nasal decongestants				
		Expectorants and Antitussive agents				
13		<b>Test</b>			Effect of and miotics on rabbit's eye	
		<b>Autocoids:</b> physiological role of histamine and serotonin				

		Histamine and Antihistamines, prostaglandins				
14		Test			File check and viva	
		<b>Cardio vascular drugs</b> Cardiotonics				
		Antiarrhythmic agents				
15		Anti-anginal agents				
		Antihypertensive agents				
		peripheral Vasodilators and drugs used in atherosclerosis				
16		Test			To study the action of strychnine on frog	
		Drugs acting on the blood and blood forming organs				
		Haematinics				
17		coagulants and anticoagulants			File check and viva	
		Haemostatic				
		Blood substitutes and plasma expanders				
18		<b>Test</b>			Effect of digitalis on frog's heart	
		<b>Drugs affecting renal function-</b> Diuretics and anti-diuretics				
		Test				
19		<b>Hormones and hormone antagonists-</b> Hypoglycemic agents			File check and viva	
		Anti--thyroid drugs				
		sex hormones and oral contraceptives				
20		<b>2<sup>nd</sup> Sessional</b>				
21		<b>Winter Vacation</b>				
22		<b>Winter Vacation</b>				
23		corticosteroids			Effect of hypnotics in mice	
		<b>Test</b>				
		<b>Drugs acting on digestive system-</b> carminatives				
24		Digestants and Bitters			File check and viva	
		Antacids and drugs used in peptic ulcer				
		Purgatives and laxatives				

25	Antidiarrhoeals and antispasmodic			Effect of convulsants in rats	
	Emetics and Anti-emetics				
	Emetics and Anti-emetics				
26	<b>Test</b>			Effect of convulsants in mice	
	<b>Chemotherapy of microbial diseases:</b> Urinary antiseptics				
	Sulphonamides				
27	Penicillin			Effect of anticonvulsant in mice	
	Streptomycin				
	Tetracyclines and other antibiotics				
28	Antitubercular agents			Effect of anticonvulsant in rats	
	Antifungal agents				
	Antiviral drugs				
29	Anti-leprotic drugs			File check and viva	
	Chemotherapy of protozoal diseases				
	Anthelmintic drugs				
30	Anthelmintic drugs			Test for pyrogens	
	Chemotherapy of cancer				
	Chemotherapy of cancer				
31	<b>Test</b>			Taming and hypnosis potentiating effect of chlorpromazine in mice/rats.	
	<b>Disinfectants</b>				
	<b>Test</b>				
32	<b>3<sup>rd</sup> Sessional</b>				
33	<b>Antiseptics</b>			Effect of diphenhydramine in experimentally produced asthma in guinea pigs	
	<b>Test</b>				
	Revision				
34	Revision			File check and viva	
	Revision				

		<b>Test</b>				
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