

CURRICULUM AND SYLLABUS UNDER THE NEW REGULATIONS FOR THE M.B.B.S. COURSE OF STUDIES OF PHARMACOLOGY.

THIRD SEMESTER:

A. Didactic Lectures

40hrs

I. General Consideration & Basic Principles

15hrs

(Introduction, Historical perspective, Pharmacokinetic principles, Pharmacodynamics, Issues relating to pharmacotherapeutics, Essential Drugs concept, Steps in New Drug Development: Ethics and Regulation).

II. Autonomic Pharmacology

6hrs

(Introduction, Historical Perspectives, classification of drugs affecting ANS, Muscarinic receptor agonists and antagonists, Adrenergic receptor agonists and antagonists).

III. Autacoids & Related Pharmacology

3hrs

(Introduction, Eicosanoids & NSAIDs, Histamine &Antihistaminics, Bradykinin & its antagonists, Renin-angiotensin system, 5HT & its antagonists).

IV. Neuropharmacology

16hrs

(Benzodiazepines, Barbiturates, Anticonvulsants, Antiparkinsonian drugs, Neuroleptics, Anxiolytics, Lithium, Antidepressants, General Anaesthetics, Skeletal Muscle Relaxants, Local Anaesthetics, Opioid & Non-Opioid analgesics, Pharmacotherapy of pain & Gout).

B. Group Dynamics

40hrs

(This includes continuous assessment of each student through Item Cards).

I. Problem based Learning/Tutorials

25hrs

In these small group sessions (comprising of 25 students and one teacher facilitator in each group) the students will be required to resolve specific problems that would be designed by the faculty members of the department addressing issues covered in the didactic lectures in this semester.

II. Student's seminar to be arranged.

15hrs

C. Practicals / Demonstration

40hrs

(All practical hours must be small group sessions. Students are required to maintain record books which will be continuously assessed by teacher).

I. Prescription writing

Principles & format

2hrs

Abbreviations used, Weights & Measures

2hrs

Rational Selection of a Drug while prescribing

(WHO P-drug concept)

4hrs

Writing specific problem-led prescriptions

for common ailments.

10hrs

(A list of such specific problem-led prescriptions are given in **Annexure-1**. These may be revised as per the need of the day)

II. Therapeutic problem-solving addressing the issues of clinically relevant adverse drug reactions (ADR's) and adverse drug interactions (DI's).

(Coloured photographs of some typical ARD's may be used additionally).

(A list of such therapeutic problems are given in **Annexure-2**).

III. Pharmacy

Compounding & Dispensing of some common dosage forms eg. Mixture, 12 hrs



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Lotion/	ointment,	Powder, etc.	
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- I) Alkali mixture/S.S. of Magsulph
- II)Carminative mixture.
- III) ORS Powder
- IV) Calamine lotion
- V) Atropine sulphate ointt.(1%)
- VI) Gamma-benzene hexachloride ointment(1%).

FOURTH SEMESTER

A. Didactic Lectures 30hrs

V. Renal Pharmacology.

4hrs

Diuretics & Anti Diuretics

Drugs for acid –base & Electrolyte balance.

VI. Cardiovascular Pharmacology.

9hrs

Angina pectoris, Myocardial infraction ,Cardiac arrhythmias, Hyperlipidemias, Hypertension, Heart failure.

VII. Gastrointestinal Pharmacology

6hrs

Laxatives & Non–specific antidiarrhoeals Pharmcotherapy of Peptic ulcer Antiemetic & Prokinetic agents, Drugs for portal hypertension, Pancreatitis, Gall stones, Ulcerative colitis.

VIII. Haemato-pharmacology.

4hrs

Haematinics, Coagulants & Anticoagulants, Antithrombotics, Fibrinolytic, Antiplatelet agents.

IX. Endrocrine Pharmacology.

7hrs

Insulin & Oral hypoglycemic agents, Thyroid and anti thyroid drugs, Corticosteroids, Oral contraceptives, Vitamin D, Parathormone, Calcium homeostasis.

B. Group Dynamics

30hrs

I. Problem-based learning / Tutorials similar to 3rd Semester.

20hrs

II. Integrated teaching –learning / Student's seminar.

Topics like Anaemia, Hypertension, Angina pectoris, Peptic ulcer, Oral contraceptives, Rickets, Diabetes mellitus etc. should be dealt in integrated sessions involving other para-clinical (and clinical) disciplines like pathology, Microbiology, Community Medicine etc. In such seminars students will take active part and teachers of different disciplines will act as facilitators. The seminars hours will be treated as common credit hours for the para –clinical disciplines that are directly involved in the concerned topic of discussion. For the logistic convenience, these sessions will not be required to attend at a time. Each session will be of 2 hours duration. They may be scheduled to be held on the last Saturday of each month. The minimum number of such integrated sessions will be 5 in this semester.

C. Practicals / Demonstrations

30hrs

I. Prescription writing.

6hrs

Writing specific problem led prescriptions (for common aliments)

II. Therapeutic problem solving

4hrs

Similar to 3rd Semester

III. Demonstration of different dosage forms, formulations and delivery systems.

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6hrs

Tablets, Scored tablets, Capsules, Coated tablets, Drug suspensions, Suppositories, Enema, Eyedrops, Injectables(Ampoules & Vials), Transdermal systems(NTC Patch), Fluid transfusion bottles (Glass vs plastics), Blood Transfusion sets & Donor sets syringes (Tuberculin, Insulin, 2 ml, 5 ml, 10 ml, 50ml.) (Glass vs Disposable)

Needles –different sizes.

Butterfly canula

Scalp vein sets

Inhalers, Spacer devices, Nebulizers.

Different types of packaging: Blister packs, Coloured bottles.

IV. Experimentals.

14hrs

Demonstration of drug effects

A. Animal experiments

8hrs

1. Effects of mydriatics &miotics in Rabbit's eye.

2.Demostration of drug effect in amphibian heart /cat blood pressure

3. Guinea pig ileum

B. Actual patient situation

6hrs

Visit to the indoor/ in patient's deptt.

(General medicine, Pediatrics, or Maternity ward.) to oversee the drug prescribing and utilization. Raukercom

FIFTH SEMESTER

preparation.

A. Didactic Lectures

30hrs

X.Respiratory System Pharmacology

2hrs

Pharmacotherapy of Cough

Drug therapy of Bronchial Asthma.

XI. Chemotherapy & Anti-infectives

14hrs

General consideration, Antiseptics and disinfectants

B-lactam antibiotic, Aminoglycosides, Tetracyclines, Chloromphenicol, Macrolides, Quinolones & Sulphenamides, Antiamoebic, Anti tubercular, Anti fungal and Antiviral drugs with pharmacotherapy of AIDS.

XII. Cancer Chemotherapy

2hrs

Principles & general consideration

Treatment approach in some common malignancies.

XIII. Immunopharmacology

1hrs

Immuno suppressants & Immunostimulants.

Vaccines & Sera.

XIV. Toxicology

3hrs

Drug overdose & poisoning

Heavy metals & Metal antagonist

Environmental toxicants & Drug dependence, Drug abuse, Adr monitoring

XV. Miscellaneous

8hrs

Vitamins & minerals

Dental Pharmacology

Dermatopharmacology

Ocular pharmacology



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Drugs & uterine motility

Drugs used in medical emergencies

Rational use of drugs/Rational therapy

Gene therapy

Drug prescribing in Pregnancy, Infants and Children, Geriatric patients and Hepato-renal insufficiency.

B. Group Dynamics

30hrs

I. Problem-based learning / Tutorials

20hrs

II. Integrated learning / Students seminar

10hrs

Similar to that in 4th Semester.

Seminar topics: Bronchial asthma, Rational use of antibiotics, Tuberculosis, Malaria, Worm infestations, Management of poisons, Vaccine preventable diseases, Acute Respiratory Infection and Diarrhoeal Disorders in Children.

C. Practicals/Demonstrations

30hrs

I. Prescription writing

Writing specific problem related prescription (for common aliments)

6hrs

II. Therapeutic problem solving

10hrs

8hrs

III. Pharmacy
a) Criticism of prescription

6hrs

b) Developing critical appraisal skill in scanning information from

4hrs

- i) Pharmaceuticals Promotional Literature
- ii) Package Inserts/ Patient Information Leaflets
- iii) Published Documents in Independent Medical Journals.

IV. Experimentals

6hrs

Actual Patient Situation

- a) Visit to the General Emergency to oversee the management of any one Medical/Surgical Emergency.
 - b) Visit to the surgical Operation Theatre to over see the effects of drugs used anaesthetic practice.

Annexure-1. (A list of problem-led prescriptions)

- 1. A drug for "TYPHOID FEVER".
- 2. A drug for "BACILLARY DYSENTRY".
- 3. A drug for "DUDENAL ULCER".
- 4. A drug for "AMOEBIC DYSENTRY".
- 5. A drug for "TONIC CLONIC SEIZURES".
- 6. PURGATIVE FOR RADIOLOGICAL EXAMINATION.
- 7. A drug for "MULTI-BACILLARY LEPROSY".
- 8. A drug for "TINEASIS".
- 9. A drug for "URINARY TRACT INFECTION".
- 10. A drug for "ACUTE BACTERIAL CONJUNCTIVITIS".
- 11. A drug for "FILARIASIS:"
- 12. A drug for "ACUTE GOUT".
- 13. A drug for "NAUSEA AND VOMITING".
- 14. A drug for "UNCOMPLICATED PULMONARY TUBERCULOSIS."

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- 15. A drug for "MIXED WORM INFESTATION".
- 16. A drug for "MIGRAINE".
- 17. A drug for "SYPHILIS".
- 18. A drug for "GONORRHOEA".
- 19. A drug for "ACUTE ATTACK OF ANGINA PECTORIS".

Annexure-2 (DRUG INTERACTION)

- 1. Amoxicilin & Clavulanic Acid.
- 2. Metronidazole& Ethylalcohol.
- 3. Ciprofloxacin & Theophylline.
- 4. Aspirin & Warfarin.
- 5. Rifampicin & Cobined OCP.
- 6. Chloroquine & Alkali mixture.
- 7. Sucralfate & Antacid.
- 8. L-dopa & Pyridoxine.
- 9. Propranolol & Verapamil.
- 10. Digoxin & Hydroclorothiazide.
- 11. Chlorpropamide & Dicommurol.
- 12. Gentamycin & gallamine.
- 13. Lithium & Thiazide.
- 14. Propranolol & Insulin.
- 15. Enalapril & Spironolactone.

Annexure-3 (THERAPEUTIC PROBLEMS)

- 1. A 10 year old school girl suffering from mild exercise induced bronchial asthma has been treated with a metered does inhaler containing 500 µ g of Terbutaline per inhalation as and when required, which effectively controls the individual attack. However, she has attacks of wheezing every 3 to 4 weeks occurring during exercise even after above treatment schedule.
 - What treatment should now be given to reduce the frequency of attacks?
- 2. A 16 years old girls has admitted to the emergency department with severe short of breath. She is diagnosed as acute bronchial asthma. She has been using metered dose inhalation of Salbutamol, Ipratropium and Beclomethasone. In spite of the above treatment, the present attack is not controlled.
 - What will be her immediate treatment?
- 3. A 69 year old woman suffering from congestive heart failure has been treated with 0.25 mg Digoxin tablet daily for last 3 months. But the heart failure is not controlled adequately. What will be the treatment to control the heart failure adequately?
- 4. A 45 year old male patient with history of smoking presented with exertional retrosternal compressing pain radiating to the left arm and lasts for 2-5 minutes. The pain is relieved after taking rest. After proper investigation, he has been diagnosed as a case of stable angina pectoris. What will be the treatment to control the attack?
- 5. A 45 old patient suffering from angina pectoris was on treatment with isosorbide dinitrate. He is admitted to the hospital with severe chest pain and sweating and diagnosed to be a case of acute myocardial infarction.
 - What will be the management of this patient?
- 6. An overweight middle aged man is found to be hypertensive while attending a clinic for medical cheek up. His B.P. is 170/105 mm of Hg on two successive observations. What will be the treatment for this patient?





- 7. A 58 year old man with history of severe hypertension for 20 years, which was well controlled with medication. He stopped taking drugs for a prolonged period. His blood pressure is found to be 240/135 mm of Hg with papillaedema.
 - What will be the management of this case?
- 8. A 25 year old lady is brought to emergency unit by her family members. She is unconscious with constricted pupils and froth coming out of her mouth. She is reported to consume an organophosphorus insecticide.
 - How will you manage the case?
- 9 A middle aged person was watching T.V. in dark ,suddenly develops pain in right eye, vomiting and blurring of vision. On examination, right pupil is dilated, sluggishly reacting to light with raised intra-ocular pressure. The condition is diagnosed as a case of acute congestive glaucoma. What will be the medical management of this clinical condition?
- 10. A 20 year old diabetic man on insulin therapy suddenly developed fever and Missed his usual doses of insulin and became unconscious. What measures will you take to manage this condition?
- 11. A middle aged diabetic patient with oral anti-diabetic agent (Tolbutamide) underwent prolonged exercise and missed his usual breakfast. He developed unconsciousness, respiratory distress and profuse sweating with tachycardia.
 - How will you manage the case?
- 12. A person is willing to travel an endemic area of malaria. What chemoprophylaxis has to be given to him?
 - Subsequently, he developed chloroquine-resistant malaria. How will you manage the case?
- 13. A male patient develops fever with chill and rigor. P. vivax is found in his blood smear. What will be the management of this case?
- 14. A woman in 2nd trimester pregnancy is found to be moderately anemic on routine antenatal check-up.
 - What will be the management of this case?
- 15. A 6 year old boy while playing in a village ground was beaten by a snake. The snake was identified as a poisonous one.
 - How will you manage this case?
- 16. A patient with chronic psychiatric illness was treated with largactil (chlorpromazine) for a prolonged period. He developed tremor, bradykinesia and rigidity

 What treatment should be given to the patient without stopping the drug?

ITEM CARD OF PHARMACOLOGY CONTINUOUS DAY-TO-DAY ASSESSMENT

NAME: COLLEGE:

ROLL NO: BATCH: SESSION

Signature of teacher-in-charge Signature of the H.O.D.

THIRD SEMESTER:THEORETICALS						
ITEM	DATE	TOTAL	MARKS			
		MARKS	OBTAINED	EXAMINER		
I. GENERAL PHARMACOLOGY		15				
Historical considerations, Steps of drug						
development, Dosage forms, Drug delivery						
systems Routs of drug administration,						
Pharmacokinetics, Pharmacodynemics,						
Factors affecting therapeutic outcome, Drug						

prescribing in altered physiological states		
(Pregnancy and lactation, neonates and		
elderly, hepatic and renal impairment),		
Essential drugs concept, Rational use of		
drugs and Good prescribing practice.		
II. <u>AUTONOMIC PHARMACOLOGY</u>	15	
Basic considerations, Muscarinic&		
Adrenergic receptor agonists and antagonists.		
III. AUTACOIDS & RELATED	15	
PHARMACOLOGY		
Eicosanoids, Histamine & antihistaminics,		
5HT & drugs used in Migraine, Kinins and		
Angiontensin.		
IV. NEUROPHARMACOLOGY	15	
Benzodiazepines & Barbiturates, Drug		
treatment of Parkinsonism & Epilepsy,		
Neuroleptics & Anxiolytics, Antidepressants		
& Lithium, Drugs used in Anaesthetic		
practice including Neuromuscular blocker,		
Opioids & non-opioid analgesics and		
Pharmacotherapy.		
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THIRD SEMESTER: PRACTICALS

ITEM	DATE	TOTAL MARKS	MARKS OBTAINED	EXAMINER
I. Prescription writing		15	0	
II.Therapeutic problem solving		15		
III. Pharmacy		15		
IV. Experimentals		15		
V. Criticism of prescription		15		

FOURTH SEMESTER: THEORETICALS

ITEM	DATE	TOTAL MARKS	MARKS OBTAINED	EXAMINER
I. RENAL PHARMACOLOGY		15		
Diuretics & Antidiuretics, Drugs for BHP; Drugs				
for ACID-BASE and Electrolyte imbalance,				
II. <u>CARDIOVASCULAR PHARMACOLOGY</u>		15		
Drug therapy of CHF, Hypertension,				
Hyperlipidemias, Cardiac Arrhythmias and in				
Ischaemic heart diseases.				
III. GASTROINTESTINAL		15		
<u>PHARMACOLGY</u>				
Drug treatment for peptic ulcer, laxatives &				
antidiarrhoeals, Antiemetics & prokinetics agents				
and drugs for portal hypertension, pancreatitis,				
Gallstones and ulcerative colitis.				
IV. <u>HAEMAOPHARMACOLOGY</u>		15		
Iron, folic acid, Treatment of anaemias, Heparin				
and anticoagulants; Antithrombotic and				
fibrinolytic & antiplatelet agents.				



V. ENDOCRINE PHARMACOLOGY				15		
Insulin & Oral hypoglycemics, Thyroid &						
antithyroid drugs, Estrogens & Antiestrogens,						
Oral contraceptives, Androgens & antiandroge						
Corticosteroids, Calcium, Vitamin D,						
Parathormone & calcitonin.						
FOURTH SE	EME	STER	R: P	RACTIO	CALS	
ITEM	DAT	E	T(OTAL	MARKS	EXAMINER
			M	ARKS	OBTAINED	
I. PRESCRIPTION			15			
II. THERAPEUTIC PROBLEM SOLVING			15			
III.PHARMACY			13			
IV.EXPERIMENTALS			15			
V. CRITISM OF PRESCRIPTION			15			
V. CIGITION OF TRESCRET TION			15			
FIFTH SEM	EST	ER: T			CALS	
ITEM	DAT	rr	T	OTAL	MARKS	EXAMINER
TIEN	DAI	LIE		ARKS	OBTAINED	Erriviti (Er
I. RESPIRATORY SYSTEM			1	ANNS		
Pharmacotherapy of cough and			15			
			13			
Pharmacotherapy of bronchial asthma.						
II. CHEMOTHERAPY & ANTI-						
<u>INFECTIVES</u>			15			
Beta-lactam antibiotics, Quinolones &						
Sulfonamides, Aminoglycosides,						
Tetracyclines, Chloramphenicol &						
Macrolides, Drug therapy of						
tuberculosis and leprosy, Antivirals and						
drug treatment of AIDS, Antifungals,					O.	
Anthelmintics & antiamoebics and drug				< .		
treatment of malaria & Kala-azar.				18/		
III. CANCER CHEMOTHERAPY			15			
Principles & general considerations &			0	// /		
Methotrexate, Cyclophosphamide, vinca			2)		
alkaloids and Corticosteriods and others						
IV. IMMUNOPHARMACOLOGY	J*.	163	15			
Vaccines & sera, Immuno modualators.						
V TOVICOLOGY	4.		1,5			
V. TOXICOLOGY	11.		15			
Heavy metal poisoning & drug poisoning &						
treatment, Drug dependence & treatment						
and ADR monitoring center & poisoning information center.						
			15			
VI. MISCELLANEOUS			13			
Drugs & uterine motility and Vitamins						
& Nutrients					1 T G	
FIFTH SEI						DICA 1 (E 1777)
ITEM	DAT	E	l	OTAL A DIVE	MARKS	EXAMINER
ITEM			M.	ARKS	OBTAINED	
I. PRESCRIPTION			15			
II. THERAPEUTIC PROBLEM SOLVING			15			
III.PHARMACY			15			
IV.EXPERIMENTALS			15			
V. CRITISM OF PRESCRIPTION			15			



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ASSESSMENT OF STUDENTS:

1.Internal Assessment:

Theoretical15marks
Practical15 marks

Assessment of theoretical and practical are to be done through day-to-day assessment (Weekly /fortnightly) through ITEM CARDS and THREE PERIODICAL Examination at the end of 3^{rd} , 4^{th} & 5^{th} Semester .

Assessment for practical will also be done through day to day evaluation of the students' performance in the Practical Record Book. No Marks should be separately allocated for Practical Record Book- but its maintenance must be made mandatory.

Marks of Theory + oral and Practical are to be computed separately.

	Writt	en/Oral	Practi	ical
	Full marks	Marks	Full marks	Marks
		obtained		obtained
At the end of first	50		25	
semester				
At the end of second	50		25	
semester				
At the end of third	50		25	
semester				

Periodical Institutional Assessment Examination:

Final Internal Assessment: PHARMACOLOGY

Continuous day	to day	Periodical Asses	ssment	Total Internal Assessment	
Assessment			To		
Theory/oral(a)	Practical(b)	Theory/oral(c)	Practical(d)	Theory/oral(a+c)	Practical(b+d)
7.5	7.5	7.5	7.5	7.5+7.5=15	7.5+7.5=15
		5			

Signature of the Principal

Signature of the H.O.D



PHARMACOLOGY

Module of Questions:

Paper-I Total: 40 Marks

- 1.General Pharmacology
- 2. Autonomic Pharmacology
- 3. Cardiovascular Pharmacology
- 4.Renal Pharmacology including Acid-base and fluid-electrolyte balance
- 5. Respiratory Pharmacology
- 6.Haematopharmacology
- 7. Vitamins and micronutrients
- 8. Toxicology including Heavy metals antagonist

Q. 1Applied part of Pharmacology(Therapeutics)

10 marks

Q.2 + Q.3 + Q.4

(9+9+12) 30 marks

(Each question to be answered in a separated answer script)

Explain why? Short note; Mechanism of action.

Compare and Contrast; Effects of etc; Short questions of above

types may be set for the examination. No question shall carry more than 3 marks.

Paper-II

- 1. Pharmacology of Central nervous system.
- 2. Endocrine Pharmacology
- 3. Autacoids and immuno-pharmacology.
- 4. Skeletal muscle relaxants and local anaesthetics.
- 5. Gastrointestinal Pharmacology.
- 6. Drugs acting on uterus.
- 7. Anti infective and cancer chemotherapy.
- 8. Antiseptics, Disinfectants and ecto -parasiticides.
- 9. Dermatomucosal agents.

Q. 1. Applied part of Pharmacology (Therapeutics.)

10 marks

Q.2 + Q.3 + Q.4

30 marks

Shall be of Explain Why? Short Notes; Mechanism of action, Compare and Contrast; Effects of etc; Short questions of above types may be set for the examination. No question shall carry more than 3 marks.

	PHARMACOLOGY OR	AL:	15 marks
	DILADMA COLOCY DD	ACTICAL.	Fotal 25 mayba
1 Duscavintion one	PHARMACOLOGY PR		Total 25 marks
1. Prescription-one Format-		Total	
		1	
Writing-		1	
Oral Crossing-		2	
Total:		4	
2. Pharmacy- one item	1.	2	
Preparation & Labe	ling-	2	
Oral Crossing-		2	
Total:	_	4	
3. Therapeutic Problem			
Correct interpretation			
Therapeutic Situation	on		
In writing		2	
Oral Crossing		2	
Total:		4	
4. Drug interaction-one			
Interpretation in w	riting-	2	
Oral Crossing-		2	>
Total:		4	
5. Experimental Pharn		4 0	
Chart and diagrar		. (8)	
Experiments dem	onstrated Identif	ication-2	
In Practical classe	es & Interpr	etation-2	
charts on pharma	cokinetics		
Total:	5	4	
6. Sample based Know	0	2	
	question in writing		
7. Criticism of prescrip	otion -	3 (Oral table	
Total:	W.	25	

Practical Notebooks- Two

One-Therapeutics Record Book-Containing patterns utilization of drugs in emergency and in-patient departments.

One-Pharmacy.

Practical Note-books must be submitted in practical Examination- without which students are **NOT ALLOWED** to appear.



MODEL QUESTION

PHARMACOLOGY FIRST PAPER

FULL MARKS - 40 Time 2 hrs

The figure in the margin indicate full marks.

Candidates are required to give their answer s in their own words as far as practicable.

1. Outline the therapeutic regime for a case of hypertension with reference to the advantages and disadvantages of ACE inhibitors. 7+3

Or

How do you treat a case of anaemia in Pregnancy (Early pregnancy term & late pregnancy)? How will you treat Drug induced anaemias?

- 2. Explain why (any three)
- a) salbutamol is used in bronchial asthma.
- b) Presumide is called high ceiling diuretic.
- c) Dimercaprol is used in heavy metal poisoning.
- d) Atropin substitues are used in Drug induced Parkinsoniism.
- 3. What are the effects of (any three):

3+3+3

- a) atropine on eye
- b) aspirin on platelrt function.
- c) Mannitol in the treatment of oedema.
- d) Digoxin in atrial flutter.
- 4. Write short notes on (any four):

3+3+3+3

- a) fixed does combination
- b) sublingual route of administration
- c) 'P' drug concept
- d) zero-order kinetics of drug elimination
- e) neostigmine



d) Rosiglitazone

e) Emergency contraceptives.

PHARMACOLOGY SECOND PAPER

Full marks - 40 Time - 2 hrs The figures in the margine indicate full marks Candidate s are required to give their answer s in their own words as far as practicable 1. Discuss briefly the drug treatment of Chloroquin sensitive and Chloroquin resistant falcifarum malaria. How will you treat a case of cerebral malaria. 3+3+4 OrDescribe the drug treatmant of acute thyrotoxicosis. How do you prepare the Patient for surgery? 6+4 3+3+3 2. Explain why (any three) "Ist Banker com a) oxotocin is used for induction of labour. b) Calvulanic acid combined with amoxicillin. c) Morphine is contradicted in head injury. d) Allopurinol is used in chrinic gout. 3. What are the effects of (any three): 3+3+3 a) iodides and iodine in thyroid disorders. b) Benzhexol in parkinsonian disease. c) Morphine in respiratory function. d) Methotrexate in autoimmune disorders. 4. Write short notes on any four of the following: 3+3+3+3 a) d-penicillamine. b) Clofazimine c) Norfloxacin