

# MULTISYSTEM-I Module 3rd Year MBBS

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## Themes

S. No	Themes	Duration
1	Vomiting and blurred vision	1 week
2	Palpitation, fainting and death	1 week
3	Heredity and Cancers	2 Weeks

## **Hours Allocation**

S. No	Subject	Hours
1	Pharmacology	29
2	Pathology	24
3	Forensic medicine	25
4	Community medicine	12
5	Medicine	1
6	PRIME/Research	2
7	Family medicine	1
	Total	94

#### **General Learning Objectives**

- 1) Explain the functional organization of Autonomic Nervous system (ANS)
- 2) Describe the basic and clinical pharmacology of drugs acting on the ANS
- 3) Describe anticancer drugs
- 4) Describe the basic and clinical pharmacology of Eicosanoids.
- 5) Describe the basic and clinical pharmacology of drugs used for common skin problems.
- 6) Describe the clinical uses of some popular herbal medications.
- 7) Describe single Gene Disorders, cytogenetic disorders and different mutations
- 8) Describe the molecular Genetics Diagnosis
- 9) Define neoplasia and nomenclature of tumors
- 10) Describe characteristics of benign and malignant tumors
- 11) Describe epidemiology of cancer
- 12) Describe carcinogens, their types and clinical aspects of neoplasia
- 13) Describe diagnosis of cancer, grading and staging of tumors
- 14) Describe pathways for tumor spread and tumor immunity
- 15) Describe the protocols and procedures of autopsy.
- 16) Describe Thanatology and its medicolegal implications.
- 17) Describe general principles of Toxicology and their role in medicolegal sciences.
- 18) Describe the fundamentals of Research Ethics

Subject	Topic	Hours	S. No	Specific Learning objectives  At the end of this module, the students of year-3 will be able to:				
	Theme-1 (Vomiting and Blurred vision)							
	Functional	1		Describe the functional				
Physiology	organization of		1	organization of ANS and its related				
	ANS-			neurotransmitters and receptors				
	and overview							
	Introduction to							
Pharmacology	the		2	Enlist major autonomic				
Tharmacotogy	pharmacology		_	neurotransmitters.				
	of Autonomic							
	Nervous							
	System (ANS)							
				Enlist various types of cholinergic,				
			3	adrenergic and dopaminergic				
				receptors discovered so far.				
				Describe the organ system				
			4	distribution of autonomic				
				receptors.				
				Describe presynaptic receptors				
			5	(autoreceptors and				
				heteroreceptors).				
				Describe inotropy, chronotropy and				
			6	dromotropy.				
	Cholinomimetic							
	drugs		7	Classify cholinomimetic drugs.				
	(Parasympatho-							
	mimetic drugs)							
			8	Enlist the naturally-occurring				
				cholinomimetic alkaloids.				
			9	Enlist major organophosphate				
				compounds.				
			10	Enlist the organophosphates used				
				as "Nerve gases".				

		Describe the pharmacokinetics of
	11	cholinomimetics with emphasis on
		metabolism and duration of action.

				Describe the mechanism of action
		12	12	of directly-acting and indirectly-
				acting cholinomimetics.
				Describe the organ system effects
				of directly-acting and indirectly-
			13	acting cholinomimetics with special
				reference to their effects on
				receptors.
			1.1	Describe the clinical uses of
			14	cholinomimetics.
				Describe the cholinomimetics used
			15	in glaucoma and Alzheimer's
				disease.
				Describe the use of Edrophonium to
			16	differentiate between cholinergic
				crisis and Myasthenic crises.
			17	Describe the adverse effects of
			17	cholinomimetics.
			18	Describe the clinical manifestations
			10	of organophosphate poisoning.
			19	Describe the clinical manifestations
				of mushroom poisoning.
				Explain the pharmacological
				rationale of prophylactic use of
			20	Pyridostigmine in situations where
				chemical warfare with nerve gases
				is anticipated.
			21	Enlist the contraindications of
				cholinomimetics.
	Anticholinergic drugs			Classify anticholinergic drugs
	(Parasympatholytics)		22	(Parasympatholytics/Cholinoceptor
				-blocking drugs).
			23	Describe belladonna alkaloids with
			23	reference to their natural sources.
			24	Describe the pharmacokinetics of
				antimuscarinic drugs with emphasis

		on metabolism and duration of
		action.
		Describe the mechanism of action
	25	of antimuscarinic drugs.
		Describe the organ system effects
		of antimuscarinic drugs with special
	26	reference to their effects on
		receptors.
		Describe the clinical uses of
	27	
		antimuscarinic drugs.
	28	Describe the drug treatment of
		organophosphate poisoning.
	29	Enlist cholinesterase regenerating
		compounds.
		Describe "aging" of the
		phosphorylated enzyme complex
	30	and its clinical importance
		regarding the management of
		organophosphate poisoning.
	24	Describe the drug treatment of
	31	mushroom poisoning.
	22	Describe the adverse effects of
	32	antimuscarinic drugs.
	33	Describe atropine fever.
		Name the antidote for atropine
	34	poisoning.
		Describe the contraindications of
	35	antimuscarinic drugs.
Ganglion-blocking		Enlist major ganglion-blocking
drugs	36	drugs.
uiugo		Describe the mechanism of action
	37	of ganglion-blocking drugs.
	38	Describe the organ system effects
		of ganglion-blocking drugs.
	39	Enlist the clinical uses of ganglion-
		blocking drugs.

		40	Enlist the adverse effects of
			ganglion-blocking drugs.
Forensic Medicine	Poison & related laws	41	Define a poison
		42	Describe laws related to poisoning or drug use.
	Legal duties of a Registered Medical Practitioner in a case of poisoning	43	Explain legal, ethical, and moral duties of Registered Medical Practitioner in a case of poisoning.
	Fate of Poison	44	Enumerate different routes of administration of poisons.
		45	Describe Biotransformation.
		46	Enlist the route of excretion of Poisons
	Diagnosis of poisoning in living and dead	47	Describe the protocols of diagnosing poisoning in living and Dead
	Antidotes	48	Define and classify antidotes
		49	Describe the mechanism of action of different antidotes
	Steps of management in a case of poisoning	50	Describe general steps of management in a case of poisoning
	Organophosphate group	51	Describe the mechanism of action of commonly used organophosphate poisons.
		52	Describe the characteristics finding for organophosphate group in postmortem examination.
		53	describe different signs and symptoms for organophosphate group.
		54	Describe the medico-legal importance for organophosphate group.

				Explain fatal dose, fatal period,
			55	
			))	and treatment for organophosphate
				poisons.
Community medicine	Smoking	1	55	Describe the global distribution and
medicine	3			increase of smoking
			56	Discuss the causes of smoking
			57	Discuss the effects of smoking on
			37	Health
				Describe preventive and control
			58	Measures
	International Health	1	59	Describe International health
	international nealth	I	39	regulations and their importance
			60	Describe preventive measures for travelers visiting disease endemic areas
	Role of international health agencies in public health	1	61	Enumerate international health agencies working in health sector
			62	Discuss structure and function of WHO & UNICEF
			63	Explain the roles of WHO & UNICEF in Pakistan
PRIME/ Research	Research Ethics	1	64	Define ethics in research
Research			65	Discuss importance of research Ethics
			66	Discuss principles of ethics
			67	Describe the theories of ethics
			68	Discuss research misconduct
	Referencing	1	69	Differentiate between references, citation & bibliography
			70	List different styles of referencing
			71	Select appropriate referencing style
				for a research project
				. ,

	Theme-2: (Palpita	ation	, faiı	nting and death)
				Classify sympathomimetic drugs
		according to the spectrum of		
Dharmacalagy	Sympathomimetic		70	adrenoceptors they affect and on
Pharmacology	drugs		72	the basis of their mode of action
				(directly-acting and indirectly-
				acting).
			72	Define Catecholamines with
			73	examples.
				Describe the pharmacokinetics of
			74	sympathomimetic drugs with
				emphasis on their metabolism.
				Describe the mechanism of action
			75	of sympathomimetics.
				Describe the organ system effects
				of sympathomimetics with special
			76	reference to their effects on
				receptors.
				Compare the effects of Adrenaline,
				Noradrenaline, Phenylephrine and
			77	Isoprenaline on heart rate and
				blood pressure.
				Describe the clinical uses of
			78	sympathomimetics.
				Describe the drug treatment of
			79	Anaphylactic shock.
				Describe the dose-dependent
			80	effects of Dopamine and its clinical
				importance.
				Describe the sympathomimetic
			81	drugs used in the management of
				glaucoma.
			82	Describe the role of mannitol
				and acetazolamide in the
				treatment of Glaucoma
				Describe the adverse effects of
			83	sympathomimetics.
				-,

	84	Describe hypertensive cheese
	01	Reaction

			Enlist the foods with high Tyramine
		85	content.
			Describe the drug interactions of
		86	sympathomimetics with Monoamine
			oxidase inhibiting drugs.
		07	Describe the treatment of
		87	accidental overdose of adrenaline.
Sympatholytic drugs			Classify sympatholytic drugs
		88	(adrenoceptor antagonists) on the
(Adrenoceptor		00	basis of spectrum of adrenoceptors
antagonists)			they affect.
		89	Name the prototype α-blocker.
		90	Name the α-blocker having more
		70	specificity for prostate muscle.
		91	Describe the mechanism of action
		91	of α-blockers.
			Describe the organ system effects
		92	of α-blockers with special
		12	reference to their effects on
			receptors.
		93	Describe the phenomenon of
			epinephrine reversal.
		94	Describe the clinical uses of α-
		77	blockers.
		95	Describe the adverse effects of α-
		73	blockers.
		96	Name the prototype β-blocker.
			Enlist the β-blockers with intrinsic
		97	sympathomimetic activity (partial
			agonist activity).
			Enlist the β-blockers with
		98	membrane stabilizing activity
			(Na channel-blocking activity).
		00	Enlist the B-blockers which have
		99	proved to be inverse agonists.
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relatively safe in chronic stable heart failure.  Enlist the β-blockers which are relatively safe in asthmatic patients.  Describe the pharmacokinetics of propranolol.  Describe the mechanism of action of β-blockers.  Describe the organ system effects of β-blockers with special reference to their effects on receptors.  Describe the clinical uses of β-blockers.  Describe β-blockers used in the management of glaucoma.  Describe stage fright and name the β-blocker used for its management.  Describe the adverse effects of β-blockers of β-blockers used in the management of glaucoma.  Describe the adverse effects of β-blockers used for its management.  Describe the adverse of β-blockers of β-blockers used in the management of glaucoma.  Describe the adverse of β-blockers of β-blockers used for its management.  Describe the adverse of β-blockers of β-blockers used in the management of glaucoma.  Describe the adverse of β-blockers of β-blockers used for its management.  Describe the adverse of β-blockers of β-blockers used in the management.  Describe the adverse of β-blockers of β-blockers used in the management.  Describe the adverse of β-blockers of β-blockers used in the management.  Describe the adverse of β-blockers of β-blockers used in the management of glaucoma.  Describe the adverse of β-blockers of β-blockers used in the management of glaucoma.  Describe the adverse of β-blockers of β-blockers.  Describe the adverse of β-blockers of β-blockers.  Describe the imitations of beta-blockers in patients with Diabetes of β-blockers.  Describe the limitations of beta-blockers in patients with Diabetes of β-blockers.  Describe the clinical uses of mixed adrenoceptor antagonists (Labetalol and Carvedilol).		Enlist the β-blockers which are
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Enlist mixed adrenoceptor  112 antagonists (Labetalol and Carvedilol).  Describe the clinical uses of mixed		Bronchial Asthma and peripheral
112 antagonists (Labetalol and Carvedilol).  Describe the clinical uses of mixed		arterial disease.
Carvedilol).  Describe the clinical uses of mixed		Enlist mixed adrenoceptor
Describe the clinical uses of mixed	112	antagonists (Labetalol and
113		Carvedilol).
	112	Describe the clinical uses of mixed
	113	adrenoceptor antagonists.

Forensic	Thanatalogy/Death		
medicine	Thanatology/Death	114	Describe death.
		115	Describe phases of death.
		116	Define brain death.
		117	Describe the criteria of brain death.
		118	Describe the role of EEG/ECG in death.
		119	Explain apparent death.
		120	Describe human tissue act.
		121	Describe medicolegal importance of death.
	Postmortem changes	122	Define Post Mortem changes.
		123	Classify Post-mortem changes.
		124	Describe immediate, early and late changes of post-mortem.
		125	Describe Post-mortem lividity.
			Describe the steps to report
		126	changes due to post-mortem
			Lividity
	Rigor mortis	127	Define Rigor Mortis.
		128	Describe the mechanism of formation of Rigor mortis
		129	Describe the special features of
		130	Rigor Mortis.  Describe time consumed to develop
		131	Rigor mortis.  Describe chemical basis of Rigor
			Mortis.

	132	Describe factors affecting Rigor
		Mortis.
	133	Describe the conditions that
		simulate Rigor Mortis.
	134	Describe procedure of its
	131	confirmation.
	135	Describe medico legal importance
	133	of Rigor Mortis.
Cooling of dead body (Algor Mortis)	136	Define Algor Mortis?
		Describe different methods of
	137	recording the temperature of dead
		body.
	138	Describe the PM body cooling
		curve?
	139	Describe the formula/calculation
		used for time since death.
Late P.M. changes & putrefaction	140	Define putrefaction?
	1 11	Describe the process of
	141	Putrefaction
	1.10	
	142	Describe stages of putrefaction.
	143	Describe order of progression in
	143	putrefaction.
	144	Describe factors affecting
	144	Putrefaction.
	145	Describe Casper dictum.
	1 11	Describe medicolegal importance of
	146	putrefaction.
Maceration		
	147	Define maceration.
	148	Describe features of maceration.
	149	Discuss differentiation point for maceration

		1
	150	Discuss medicolegal importance of maceration.
Adipocere formation (Saponification)	151	Define Adipocere formation.
	152	Describe features of Adipocere formation.
	153	Discuss medicolegal importance of Adipocere formation.
Mummification	154	Define Mummification.
	155	Describe features of Mummification.
	156	Discuss medicolegal importance of Mummification.
Introduction to autopsy	157	Define Autopsy.
	158	Describe the modified continental system and compare it with other medicolegal systems in the world.
	159	Classify types of Autopsy.
	160	Describe the role of Autopsy in Criminal offences.
	161	Describe section 174 and 176 of the Criminal Procedure Code (CrPC), 1973
Modern autopsy suite	162	Describe the components of modern autopsy suite
	163	Describe the precautions taken while working in modern autopsy suites
	164	Explain the hazards encountered in modern autopsy suites
Autopsy Protocol	165	Describe pre-examination in Autopsy.
	166	Describe the protocol of examination of clothes, and external examination in autopsy.

	167	Classify and describe different autopsy incisions.
	168	Describe internal examination in an autopsy.
	169	Describe the procedure to collect different autopsy samples.
	170	Describe the chain of custody.
	171	Describe the steps of writing an autopsy report
	172	Describe autopsy procedure for death due to heat and cold.
Exhumation	173	Define exhumation.
	174	Describe authorisation of autopsy surgeon for exhumation.

176 Describe time limit for exhumation.  177 Describe the precautions for exhumations.  178 Describe the procedure to collect samples.  179 Describe the limitations of exhumations.  180 Describe the scope of exhumation.  Describe the steps of examination of a skeletonized body to assess its race, age, sex and stature  182 Describe the protocol for autopsy of a skeletonized body  183 Describe cause of death in such cases.
177 exhumations.  178 Describe the procedure to collect samples.  179 Describe the limitations of exhumations.  180 Describe the scope of exhumation.  Describe the steps of examination of a skeletonized body to assess its race, age, sex and stature  Describe the protocol for autopsy of a skeletonized body  182 Describe cause of death in such
exhumations.  Describe the procedure to collect samples.  Describe the limitations of exhumations.  180 Describe the scope of exhumation.  Describe the steps of examination of a skeletonized body to assess its race, age, sex and stature  Describe the protocol for autopsy of a skeletonized body  Describe cause of death in such
178 samples.  179 Describe the limitations of exhumations.  180 Describe the scope of exhumation.  Describe the steps of examination of a skeletonized body to assess its race, age, sex and stature  Describe the protocol for autopsy of a skeletonized body  Describe cause of death in such
samples.  179 Describe the limitations of exhumations.  180 Describe the scope of exhumation.  Describe the steps of examination of a skeletonized body to assess its race, age, sex and stature  Describe the protocol for autopsy of a skeletonized body  Describe cause of death in such
2 180 Describe the scope of exhumation.  Skeletonized body  181 Describe the steps of examination of a skeletonized body to assess its race, age, sex and stature  Describe the protocol for autopsy of a skeletonized body  Describe cause of death in such
exhumations.  180 Describe the scope of exhumation.  Describe the steps of examination of a skeletonized body to assess its race, age, sex and stature  Describe the protocol for autopsy of a skeletonized body  Describe cause of death in such
Skeletonized body  181 Describe the steps of examination of a skeletonized body to assess its race, age, sex and stature  Describe the protocol for autopsy of a skeletonized body  Describe cause of death in such
Skeletonized body  181 of a skeletonized body to assess its race, age, sex and stature  Describe the protocol for autopsy of a skeletonized body  Describe cause of death in such
race, age, sex and stature  Describe the protocol for autopsy of a skeletonized body  Describe cause of death in such
Describe the protocol for autopsy of a skeletonized body  Describe cause of death in such
of a skeletonized body  Describe cause of death in such
of a skeletonized body  Describe cause of death in such
183
Describe nature of injury and type
184 of weapon used in such cases.
Describe time since death in such
185 cases.
Negative autopsy 186 Define negative autopsy.
Describe causes of the negative
187 autopsy.
188 Describe concealed trauma.
Autopsy artifacts and hazards  189 Describe autopsy artefacts.
Describe the importance of forensic
artefacts.
Describe effect of artefacts on the
opinion of post-mortem report.
Infanticide 192 Describe infanticide and its related
limanticide law.
Describe the Age of viability and its
medico legal significance.
Describe the concept of live birth
and separate existence.

		B d d li i i i i i
	195	Describe the Hydrostatic test and
		its importance.
	196	Explain Cause of death, i.e. acts of
	170	commission and acts of omission
		Describe sudden infant death syndrome (SIDS)
Autopsy of an	407	Describe the protocols for autopsy
infected body	197	of the infected dead body.
	198	Describe the precautions required
	190	for autopsy of an infected person.
	199	Enlist the diseases transferred from
	177	during autopsy infected dead body
Autopsy of	200	Describe autopsy of a fragmentary
fragmentary remains	200	remains and mutilated body.
	201	Discuss the protocols adopted for
	201	autopsy of fragmentary remains
	202	Describe the samples needed for
	202	autopsy of fragmentary remains.
Embalming	203	Define Embalming.
	204	Enlist the chemical used for
	20 <del>4</del>	Embalming.
	205	Describe the procedure for
	203	Embalming.
	206	Describe the used of Embalming.

Community Medicine	Child labor and Child Abuse	1	207	Define child labor
			208	Describe different types of child labor and its effects
			209	Describe statistics of child labor
			210	Describe governments` actions against child labor
			211	Define IPEC 2011 (international program on elimination of child Labor
			212	Define child abuse
			213	Describe different forms of child abuse and its effects
			214	Describe statistics of child abuse
			215	Describe the preventive strategies regarding child abuse
Medicine	General management of poisons	1	216	Describe approach to manage a poisoned patient in accident and emergency department

Pathology  Genetics  217  Pathology  Genetics  Autations  218  Describe various types of mutations  Posscribe trinucleotide-repeat Mutations  Enlist few examples of trinucleotide-Repeat Disorders  Posscribe mutations in mitochondrial genes  Transmission pattern of single Gene disorders  222  Describe biochemical and molecular basis of Autosomal Dominant Disorders  Describe biochemical and molecular basis of Autosomal Recessive disorder  224  Enlist few examples of Autosomal Dominant Disorders  Describe biochemical and molecular basis of Autosomal Recessive disorder  225  Enlist few examples of Autosomal Recessive Disorders  Describe biochemical and molecular basis of Autosomal Recessive Disorders  Describe biochemical and molecular basis of Autosomal Recessive Disorders  Describe disorders and their consequences  Describe disorders in receptors and transport system  Describe disterations in structure, functions or quantity of nonenzyme proteins		Theme-3: (He	eredit	ty ar	nd Cancers)
Pathology Genetics  Mutations  218 Describe various types of mutations Describe trinucleotide-repeat Mutations  219 Describe trinucleotide-repeat Mutations  220 Enlist few examples of trinucleotide-Repeat Disorders Describe mutations in mitochondrial genes  221 Describe mutations in mitochondrial genes  222 Enumerate transmission patterns of single gene disorders Describe biochemical and molecular basis of Autosomal Dominant Disorders  224 Enlist few examples of Autosomal Dominant Disorders Describe biochemical and molecular basis of Autosomal Recessive disorder Describe biochemical and molecular basis of Autosomal Recessive Disorders Describe mutations in mitochondrial genes Enlist few examples of Autosomal Recessive Disorders Describe biochemical and molecular basis of Autosomal Recessive Disorders Describe mechanism of transmission of X-Linked disorders Enumerate examples of X-Linked Disorders Discuss enzyme defects and their consequences Describe alterations in structure, functions or quantity of non-					·
Mutations 218 Describe various types of mutations Disorder  219 Describe various types of mutations Describe trinucleotide-repeat Mutations  220 Entitis few examples of trinucleotide-Repeat Disorders  221 Describe mutations in mitochondrial genes  222 Enumerate transmission patterns of single Gene disorders  223 Describe biochemical and molecular basis of Autosomal Dominant Disorders  224 Entits few examples of Autosomal Dominant Disorders  225 Entits few examples of Autosomal Dominant Disorders  226 Entits few examples of Autosomal Recessive disorder  227 Describe biochemical and molecular basis of Autosomal Recessive Disorders  228 Entits few Examples of Autosomal Recessive Disorders  229 Describe mechanism of transmission of X-Linked disorders  228 Enumerate examples of X-Linked Disorders  229 Discuss enzyme defects and their consequences  230 Describe defects in receptors and transport system  231 Describe alterations in structure, functions or quantity of non-	Pathology	Genetics		217	hereditary, congenital, genotype,
Mutations  218 Describe various types of mutations  219 Describe trinucleotide-repeat Mutations  220 Enlist few examples of trinucleotide-Repeat Disorders  221 Describe mutations in mitochondrial genes  222 Enumerate transmission patterns of single gene disorders  223 Describe biochemical and molecular basis of Autosomal Dominant Disorders  224 Enlist few examples of Autosomal Dominant Disorders  225 Describe biochemical and molecular basis of Autosomal Dominant Disorders  226 Enlist few examples of Autosomal Dominant Disorders  227 Describe biochemical and molecular basis of Autosomal Recessive disorder  228 Enlist few Examples of Autosomal Recessive Disorders  229 Describe mechanism of transmission of X-Linked disorders  229 Enumerate examples of X-Linked Disorders  230 Describe defects and their consequences  231 Describe defects in receptors and transport system  232 Describe alterations in structure, functions or quantity of non-					phenotype, codon, Mendelian
Describe trinucleotide-repeat Mutations  Transmission pattern of single Gene disorders  Describe mutations in mitochondrial genes  Enumerate transmission patterns of single gene disorders  Describe biochemical and molecular basis of Autosomal Dominant Disorders  Describe biochemical and molecular basis of Autosomal Dominant Disorders  Describe biochemical and molecular basis of Autosomal Recessive disorder  Describe biochemical and molecular basis of Autosomal Recessive disorder  Describe biochemical and molecular basis of Autosomal Recessive Disorders  Describe mechanism of transmission of X-Linked disorders  Describe affects and their consequences  Describe affects in receptors and transport system  Describe alterations in structure, functions or quantity of non-					Disorder
219   Mutations     220		Mutations		218	Describe various types of mutations
Mutations  220 Enlist few examples of trinucleotide-Repeat Disorders  221 Describe mutations in mitochondrial genes  222 Enumerate transmission patterns of single Gene disorders  223 Describe biochemical and molecular basis of Autosomal Dominant Disorders  224 Enlist few examples of Autosomal Dominant Disorders  225 Enlist few examples of Autosomal Dominant Disorders  226 Enlist few examples of Autosomal Recessive disorder  227 Enlist few Examples of Autosomal Recessive Disorders  228 Enlist few Examples of Autosomal Recessive Disorders  229 Describe mechanism of transmission of X-Linked disorders  228 Enumerate examples of X-Linked Disorders  228 Discuss enzyme defects and their consequences  230 Describe defects in receptors and transport system  231 Describe alterations in structure, functions or quantity of non-				210	Describe trinucleotide-repeat
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Transmission pattern of single Gene disorders  222				220	trinucleotide-Repeat Disorders
Transmission pattern of single Gene disorders  222 Enumerate transmission patterns of single gene disorders  Describe biochemical and molecular basis of Autosomal Dominant Disorders  Enlist few examples of Autosomal Dominant Disorders  Describe biochemical and molecular basis of Autosomal Pominant Disorders  Enlist few examples of Autosomal Recessive disorder  Enlist few Examples of Autosomal Recessive Disorders  Describe mechanism of transmission of X-Linked disorders  Enumerate examples of X-Linked Disorders  Discuss enzyme defects and their consequences  Describe defects in receptors and transport system  Describe alterations in structure, functions or quantity of non-				221	Describe mutations in
of single Gene disorders  222   Enumerate transmission patterns of single gene disorders  223   Describe biochemical and molecular basis of Autosomal Dominant Disorders  224   Enlist few examples of Autosomal Dominant Disorders  225   Describe biochemical and molecular basis of Autosomal Recessive disorder  226   Enlist few Examples of Autosomal Recessive Disorders  227   Describe mechanism of transmission of X-Linked disorders  228   Enumerate examples of Autosomal Recessive Disorders  229   Describe mechanism of transmission of X-Linked Disorders  230   Discuss enzyme defects and their consequences  231   Describe alterations in structure, functions or quantity of non-				ZZ I	mitochondrial genes
single gene disorders  222 single gene disorders  223 single gene disorders  224 Describe biochemical and molecular basis of Autosomal Dominant Disorders  224 Enlist few examples of Autosomal Dominant Disorders  225 Describe biochemical and molecular basis of Autosomal Recessive disorder  226 Enlist few Examples of Autosomal Recessive Disorders  227 Describe mechanism of transmission of X-Linked disorders  228 Enumerate examples of X-Linked Disorders  228 Discuss enzyme defects and their consequences  230 Describe defects in receptors and transport system  231 Describe alterations in structure, functions or quantity of non-		Transmission pattern			Enumerate transmission patterns of
Describe biochemical and molecular basis of Autosomal Dominant Disorders  Enlist few examples of Autosomal Dominant Disorders  Describe biochemical and Dominant Disorders  Describe biochemical and molecular basis of Autosomal Recessive disorder  Enlist few Examples of Autosomal Recessive Disorders  Enlist few Examples of Autosomal Recessive Disorders  Describe mechanism of transmission of X-Linked disorders  Enumerate examples of X-Linked Disorders  Enumerate examples of X-Linked Disorders  Discuss enzyme defects and their consequences  Describe defects in receptors and transport system  Describe alterations in structure, functions or quantity of non-		of single Gene		222	•
223 molecular basis of Autosomal Dominant Disorders  224 Enlist few examples of Autosomal Dominant Disorders  225 Describe biochemical and molecular basis of Autosomal Recessive disorder  226 Enlist few Examples of Autosomal Recessive Disorders  227 Describe mechanism of transmission of X-Linked disorders  228 Enumerate examples of X-Linked Disorders  228 Discuss enzyme defects and their consequences  230 Describe defects in receptors and transport system  231 Describe alterations in structure, functions or quantity of non-		disorders			single gene disorders
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Recessive disorder  226  Enlist few Examples of Autosomal Recessive Disorders  227  Describe mechanism of transmission of X-Linked disorders  Enumerate examples of X-Linked Disorders  Biochemical and molecular basis of single gene disorders  229  Discuss enzyme defects and their consequences  230  Describe defects in receptors and transport system  Describe alterations in structure, functions or quantity of non-					Describe biochemical and
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226 Recessive Disorders  227 Describe mechanism of transmission of X-Linked disorders  228 Enumerate examples of X-Linked Disorders  329 Discuss enzyme defects and their consequences  230 Describe defects in receptors and transport system  330 Describe alterations in structure, functions or quantity of non-					Recessive disorder
Recessive Disorders  Describe mechanism of transmission of X-Linked disorders  Enumerate examples of X-Linked Disorders  Biochemical and molecular basis of single gene disorders  Discuss enzyme defects and their consequences  Describe defects in receptors and transport system  Describe alterations in structure, functions or quantity of non-				226	Enlist few Examples of Autosomal
transmission of X-Linked disorders  228  Enumerate examples of X-Linked Disorders  Biochemical and molecular basis of single gene disorders  229  Discuss enzyme defects and their consequences  Describe defects in receptors and transport system  Describe alterations in structure, functions or quantity of non-				220	Recessive Disorders
transmission of X-Linked disorders  Enumerate examples of X-Linked Disorders  Biochemical and molecular basis of single gene disorders  229 Discuss enzyme defects and their consequences  230 Describe defects in receptors and transport system  Describe alterations in structure, functions or quantity of non-				227	Describe mechanism of
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Biochemical and molecular basis of single gene disorders  229 Discuss enzyme defects and their consequences  230 Describe defects in receptors and transport system  Describe alterations in structure, functions or quantity of non-				228	Enumerate examples of X-Linked
molecular basis of single gene disorders  229 Discuss enzyme defects and their consequences  230 Describe defects in receptors and transport system  Describe alterations in structure, functions or quantity of non-				220	Disorders
molecular basis of single gene disorders  230  Describe defects in receptors and transport system  Describe alterations in structure, functions or quantity of non-		Biochemical and			Discuss enzyme defects and their
single gene disorders  230 Describe defects in receptors and transport system Describe alterations in structure, functions or quantity of non-		molecular basis of		229	
230 transport system  Describe alterations in structure,  functions or quantity of non-		single gene disorders			consequences
transport system  Describe alterations in structure, functions or quantity of non-				230	Describe defects in receptors and
231 functions or quantity of non-				230	transport system
					Describe alterations in structure,
enzyme proteins				231	functions or quantity of non-
					enzyme proteins

Describe genetically determine adverse reactions to drugs	
Complex multigeneic Describe multigeneic disorders	with
disorders Examples	
Cytogenetic Disorders Discuss Trisomy 21 and its	
involving Autosomes molecular basis	
Describe diagnostic clinical	
features of Trisomy 21	
Describe the basic principles of	f
Molecular genetic 236 various molecular techniques	
diagnosis including PCR, FISH and	
Southern/Western blotting	
Enumerate indications of these	9
techniques.	
Define the terms:	
Introduction to neoplasia, neoplasm, oncology	,
238   tumor, benign tumor, malignar	nt
Neoplasia tumor, anaplasia, metaplasia,	
differentiation and dysplasia.	
Describe the basic principle of	
Nomenclature of 239 nomenclature of tumors with	
Tumors respect to tissue of origin, ben	ign
and malignant nature	
Characteristics of Describe characteristics of ben	ign
Benign and Malignant 240 and malignant tumors	''5''
Tumors	
Differentiate between benign a	and
malignant tumors	
Describe characteristics of ber	nign
and malignant neoplasms in te	rms
242 of differentiation, anaplasia, r	ate
of growth, local invasion and	
Metastasis	
Epidemiology of Describe the epidemiology of	
Cancer Cancer 243 cancer with respect to overall	
incidence of cancer and variou	S

host facto	rs (age and hereditary)
that predi	sposes to cancer
Discuss the	e epidemiology of cancer
with respe	ect to geographical and
244 environme	ental factors that
predispose	e to cancer
Molecular Basis of Describe t	he molecular/genetic
Cancer 245 basis of ca	arcinogenesis
246 Describe g	enetic lesions in cancer
Define one	cogene, proto-oncogene
and Oncop	proteins.
Carcinogenesis 248 Enumerate	e carcinogens
249 Describe t	he process of
carcinoger	nesis
250 Describe t	he hallmarks of cancer
	process involved
251 Describe t	he role of p53
Types of Carcinogens 252 Discuss pro	operties of chemical
Carcinoge	ns
Describe of	lirect and indirect
253 chemical of	carcinogens and their
mechanisr	n of action
Describe t	he mechanism of
	carcinogenesis
Enumerate 255	e viral and bacterial
Carcinoge	ns
Describe n	nechanism of
256 carcinoger	nesis by viral and
microbial	oncogenes
Clinical Aspects of 257 Define cac	hovia
neoplasia 237 Define cac	liexia
Describe t	he clinical features of
258 neoplasia	including effects of
tumor on I	host cancer cachexia
Describe t	he clinical significance of
paraneopl	

				Describe clinical syndromes with
				respect to its causal mechanism
			260	and major forms of underlying
				Cancer
	Diagnasia of Consor		2/1	Describe morphologic, biochemical
	Diagnosis of Cancer		261	and molecular methods employed
				for diagnosis of cancer
	Pathways for tumor			Describe the pathways for spread
	spread		262	of tumors like local invasion and
	•			metastasis
	Grading and Staging		263	Describe grading and staging of
	of tumors		203	Tumors
	Tumor immunity		264	Discuss host defenses against
	rumor inimumity		204	Tumors
			2/5	Describe tumor antigens and anti-
			265	tumor effect mechanisms
			266	Describe tumor surveillance and
				Immune evasion by the tumors
				Describe terms like cell cycle-
Pharmacology	Anticancer drugs		267	specific drugs and cell cycle-
				nonspecific drugs.
				Describe the role of P-glycoprotein
			268	in relation to the development of
				resistance to cytotoxic drugs.
			269	Classify anticancer drugs.
				Describe general adverse effects of
			270	anticancer drugs.
				Describe the mechanism of action
			271	of alkylating agents.
				Describe the clinical uses and
			272	adverse effects of Busulfan and
				Cyclophosphamide.
				Describe the mechanism of action,
			273	clinical uses and adverse effects of
			2/3	Cisplatin.
				•
			274	Describe in general the mechanism
				of action of antimetabolites.

Describe the mechanism of action, clinical uses, adverse effects and contraindications of Methotrexate, Azathioprine, 6-Mercaptopurine and 5-Fluorouracil.  Describe the drug interaction of Azathioprine and 6-Mercaptopurine with Allopurinol.  Describe the natural source of plant alkaloids Vinblastine and Vincristine.  Describe the mechanism of action, clinical uses and adverse effects of Vinblastine and Vincristine.  Describe the mechanism of action, clinical uses and adverse effects of Doxorubicin, Daunorubicin, Dactinomycin and Bleomycin.  Enlist the anticancer mechanism of action and uses of hormonal agents like Tamoxifen, Flutamide, Goserelin and Aminoglutethimide.  Enlist the drugs of choice for ALL, AML, CLL, CML, Hodgkin's disease, Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment	1	1			Docaribo the machanism of action
275 contraindications of Methotrexate, Azathioprine, 6-Mercaptopurine and 5-Fluorouracil.  Describe the drug interaction of Azathioprine and 6-Mercaptopurine with Allopurinol.  Describe the natural source of plant alkaloids Vinblastine and Vincristine.  Describe the mechanism of action, clinical uses and adverse effects of Vinblastine and Vincristine.  Describe the mechanism of action, clinical uses and adverse effects of Doxorubicin, Daunorubicin, Dactinomycin and Bleomycin.  Enlist the anticancer mechanism of action and uses of hormonal agents like Tamoxifen, Flutamide, Goserelin and Aminoglutethimide.  Enlist the drugs of choice for ALL, AML, CLL, CML, Hodgkin's disease, Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment					
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Describe the natural source of plant alkaloids Vinblastine and Vincristine.  Describe the mechanism of action, clinical uses and adverse effects of Vinblastine and Vincristine.  Describe the mechanism of action, clinical uses and adverse effects of Doxorubicin, Daunorubicin, Dactinomycin and Bleomycin.  Enlist the anticancer mechanism of action and uses of hormonal agents like Tamoxifen, Flutamide, Goserelin and Aminoglutethimide.  Enlist the drugs of choice for ALL, AML, CLL, CML, Hodgkin's disease, Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment				276	Azathioprine and 6-Mercaptopurine
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Vincristine.  Describe the mechanism of action, clinical uses and adverse effects of Vinblastine and Vincristine.  Describe the mechanism of action, clinical uses and adverse effects of Doxorubicin, Daunorubicin, Dactinomycin and Bleomycin.  Enlist the anticancer mechanism of action and uses of hormonal agents like Tamoxifen, Flutamide, Goserelin and Aminoglutethimide.  Enlist the drugs of choice for ALL, AML, CLL, CML, Hodgkin's disease, Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment					Describe the natural source of
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clinical uses and adverse effects of Doxorubicin, Daunorubicin, Dactinomycin and Bleomycin.  Enlist the anticancer mechanism of action and uses of hormonal agents like Tamoxifen, Flutamide, Goserelin and Aminoglutethimide.  Enlist the drugs of choice for ALL, AML, CLL, CML, Hodgkin's disease, Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment					Vinblastine and Vincristine.
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Dactinomycin and Bleomycin.  Enlist the anticancer mechanism of action and uses of hormonal agents like Tamoxifen, Flutamide, Goserelin and Aminoglutethimide.  Enlist the drugs of choice for ALL, AML, CLL, CML, Hodgkin's disease, Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment					Doxorubicin, Daunorubicin,
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Goserelin and Aminoglutethimide.  Enlist the drugs of choice for ALL, AML, CLL, CML, Hodgkin's disease, Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment				280	
Enlist the drugs of choice for ALL, AML, CLL, CML, Hodgkin's disease, Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment					,
AML, CLL, CML, Hodgkin's disease,  Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment					
281 Non-Hodgkin's lymphoma, Ca breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment					·
breast, Ca lung, Ca prostate and Ca stomach.  Describe cancer treatment				281	, , , ,
stomach.  Describe cancer treatment					
Describe cancer treatment					
modalities (primary induction,					
282				282	
adjuvant, neo-adjuvant and					
maintenance chemotherapy)					
Describe the antidotes of				283	
and Doxorubicin toxicity.					and Doxorubicin toxicity.
Eicosanoids- 284 Classify eicosanoids.				284	Classify eicosanoids.
Prostaglandins		Prostaglandins			,

			Describe the mechanism of action
		285	of Prostaglandins.
		201	Describe the organ system effects
		286	of Prostaglandins.
		287	Describe the clinical uses of
		207	Prostaglandins.
		288	Describe the prostaglandins used in
		200	the management of glaucoma.
		289	Describe the pharmacologic effects
		207	of Thromboxane's2.
			Describe dermatologic formulations
Dermatologic		290	like creams, ointments, gels,
preparations		270	lotions, pastes, powders, tinctures
			and wet dressings.
			Describe the choice of
		291	dermatologic formulation with
			reference to the nature of the
			lesion.
Drug treatment of		292	Enlist the drugs used for the
scabies			treatment of Scabies
			Describe the method of application
		292	of Permethrin, Crotamiton and
		<i>L</i> / <i>L</i>	Benzyl benzoate for treating
			scabies.
Drug treatment of			Enlist the drugs used for treating
Acne vulgaris		293	Acne (including antibiotics and
Acric vargaris			hormonal agents).
			Describe the mechanism of action
		294	and adverse effects of Benzoyl
			peroxide, Tretinoin and
			Isotretinoin.
		295	Describe the teratogenicity of
		_//	Isotretinoin.
Drug treatment of		296	Enlist the drugs used for treating
Psoriasis		_,0	Psoriasis.

			297	Describe the teratogenicity of
				Acitretin.
				Describe the terms like benefit
				Describe the terms like herbal
			000	medications, botanicals and
	Herbal medications		298	nutritional supplements with
				special reference to drug
				regulatory factors.
				Describe the pharmacologic effects
			299	and intended uses of Garlic (Allium
				sativum).
			200	Describe the drug interactions of
			300	Garlic with Warfarin and Aspirin.
			201	Describe the possible medicinal use
			301	of Kalonji (Nigella sativa).
				Describe the pharmacologic effects
			302	and intended uses of Ginseng.
				Describe the drug interactions of
			303	Ginseng with antipsychotic and
				hypoglycemic medications.
				Describe the intended clinical uses
			304	of Coenzyme Q10.
			305	Describe the drug interactions of
				Coenzyme Q10 with Warfarin.
Community	-			Enlist the common cancers
Medicine	Cancers	1	306	prevalent in Pakistan
				Describe the burden and
			307	epidemiology of common cancers
			307	prevalent globally and in Pakistan
			308	Describe the prevention and
				control of cancers
				Describe various governmental
				programs and strategies for the
				prevention of cancers

Family medicine	Cancer screening	310	Identify red-flags in patient which
			need referral for cancer screening
		311	Explain the psychosocial impact of
			disease on patient and their
			families
		312	Describe the indications, rationale
			and common diseases which
			require routine cancer screening

	Pra	ctica	l wo	rk
D.:L.	Lipoma			Identify the morphological changes
Pathology			313	occurring in lipoma
	Squamous cell		24.4	Identify morphological changes of
	carcinoma		314	squamous cell carcinoma
	Fibro adenoma			Enlist points of identification of
			315	gross and microscopic features of
				fibro adenoma of breast
	Karyotyping		316	Demonstrate preparation of
			310	Karyogram
			317	Identify gender on the basis of
			317	Karyogram
				Identify common numerical
			318	chromosomal abnormalities on
				Karyogram
	Introduction to		319	Differentiate between Qualitative
	experimental			and Quantitative experiments.
Dhama	Pharmacology narmacology (experiments on			
Pharmacology				
	isolated piece of			
	rabbit's Ileum)			
			320	Recognize various parts of Tissue
				Organ Bath and describe their
				functions.
			321	Describe the ingredients and their
				quantities required for preparing
				the Tyrode's Solution.
			322	Describe the technique of
				slaughtering of rabbit and removal
				of a piece of ileum.
			323	Describe the fixation of piece of
				ileum in the inner organ bath.
			324	Enumerate the causes of tissue
				death.
	Ceiling effect for		325	Demonstrate ceiling effect for
	Parasympathomimeti			Acetylcholine on the isolated piece
	c drug (Acetylcholine)			of rabbit's ileum by adding proper

organ bath.  326 Interpret the recording of acetylcholine-induced ileal activity on the revolving drum.  327 Demonstrate washing of the inner organ bath for the subsequent doses of Acetylcholine.  328 Construct tables and graphs for inference of the results.  Antagonism between acetylcholine and atropine and atropine and atropine on piece of rabbit's ileum by adding proper doses of the drugs into the inner organ bath.  330 Interpret the recording of acetylcholine- and Atropine-induced ileal activity on the revolving drum.  Construct tables and graphs for inference of the results.  Ceilting effect for Histamine Histamine on the isolated piece of rabbit's ileum by adding proper doses of the drug into the inner organ bath.  331 Interpret the recording of Histamine on the isolated piece of rabbit's ileum by adding proper doses of the drug into the inner organ bath.  332 Demonstrate ceiling effect for Histamine -induced ileal activity on the revolving drum.  333 Demonstrate washing of the inner organ bath for the subsequent doses of Histamine.  334 Demonstrate washing of the inner organ bath for the subsequent doses of Histamine.  335 Construct tables and graphs for inference of the results.  Antagonism between Histamine and stability and antagonism between Histamine and stability are for a babbit.			doses of the drug into the inner
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328 Construct tables and graphs for inference of the results.  Antagonism between acetylcholine and atropine on piece of rabbit's ileum by adding proper doses of the drugs into the inner organ bath.  330 Interpret the recording of acetylcholine- and Atropine-induced ileal activity on the revolving drum.  331 Construct tables and graphs for inference of the results.  Ceiling effect for Histamine on the isolated piece of rabbit's ileum by adding proper doses of the drug into the inner organ bath.  331 Interpret the recording of Histamine -induced ileal activity on the revolving drum.  332 Demonstrate washing of the inner organ bath for the subsequent doses of Histamine.  333 Construct tables and graphs for inference of the results.  Antagonism between Histamine and			organ bath for the subsequent
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drugs into the inner organ bath.  330 Interpret the recording of acetylcholine- and Atropine-induced ileal activity on the revolving drum.  331 Construct tables and graphs for inference of the results.  Ceiling effect for Histamine Histamine on the isolated piece of rabbit's ileum by adding proper doses of the drug into the inner organ bath.  331 Interpret the recording of Histamine -induced ileal activity on the revolving drum.  332 Demonstrate washing of the inner organ bath for the subsequent doses of Histamine.  333 Construct tables and graphs for inference of the results.  Antagonism between Histamine and	atropine		and atropine on piece of rabbit's
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revolving drum.  331 Construct tables and graphs for inference of the results.  Demonstrate ceiling effect for Histamine on the isolated piece of rabbit's ileum by adding proper doses of the drug into the inner organ bath.  331 Interpret the recording of Histamine -induced ileal activity on the revolving drum.  332 Demonstrate washing of the inner organ bath for the subsequent doses of Histamine.  333 Construct tables and graphs for inference of the results.  Antagonism between Histamine and			acetylcholine- and Atropine-
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331 Interpret the recording of Histamine -induced ileal activity on the revolving drum.  332 Demonstrate washing of the inner organ bath for the subsequent doses of Histamine.  333 Construct tables and graphs for inference of the results.  Antagonism between Histamine and  334 Demonstrate surmountable antagonism between Histamine and			doses of the drug into the inner
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332 Demonstrate washing of the inner organ bath for the subsequent doses of Histamine.  333 Construct tables and graphs for inference of the results.  Antagonism between Histamine and antagonism between Histamine and			Histamine -induced ileal activity on
organ bath for the subsequent doses of Histamine.  333 Construct tables and graphs for inference of the results.  Antagonism between Histamine and antagonism between Histamine and			the revolving drum.
doses of Histamine.  333 Construct tables and graphs for inference of the results.  Antagonism between Histamine and antagonism between Histamine and		332	Demonstrate washing of the inner
333 Construct tables and graphs for inference of the results.  Antagonism between Histamine and Antagonism between Histamine and			organ bath for the subsequent
inference of the results.  Antagonism between Histamine and antagonism between Histamine and			doses of Histamine.
Antagonism between 334 Demonstrate surmountable Histamine and antagonism between Histamine and		333	Construct tables and graphs for
Histamine and antagonism between Histamine and			inference of the results.
	Antagonism between	334	Demonstrate surmountable
	Histamine and		antagonism between Histamine and
antinistamine antinistamine on piece of rabbit's	antihistamine		antihistamine on piece of rabbit's

	1		ilayya hayaddiga gayaa a daaa af tha
			ileum by adding proper doses of the
			drugs into the inner organ bath.
		335	Interpret the recording of
			Histamine- and antihistamine-
			induced ileal activity on the
			revolving drum.
		336	Construct tables and graphs for
			inference of the results.
To identify an		337	Demonstrate ceiling effect for the
unknown drug on			known agonist drug (Acetylcholine
rabbit's ileum with			or Histamine) on the isolated piece
the help of two			of rabbit's ileum by adding proper
known antagonists			doses of the drug into the inner
			organ bath.
		338	Demonstrate surmountable
			antagonism between the agonist
			drug and the unknown antagonists
			(Atropine and antihistamine) on
			piece of rabbit's ileum by adding
			proper doses of the drugs into the
			inner organ bath.
		339	Interpret the recording of drug-
			induced ileal activity on the
			revolving drum.
		340	Construct tables and graphs for
		3 .0	inference of the results.
Introduction to		341	Demonstrate measuring the pupil
experimental			Size.
Pharmacology			3120.
(effects of drugs on			
rabbit's Eye)			
Tabbit's Lye)		342	Demonstrate corneal reflex.
		343	
Effects of			Demonstrate light reflex.
Effects of		344	Demonstrate the effect of
Parasympathomimeti			Pilocarpine on the size of the pupil
c drug (e.g.,			in the test eye in comparison with
			the control eye.

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351 Demonstrate the effect of Ephedrine on the light reflex in the			the test eye in comparison with the
Ephedrine on the light reflex in the			control eye.
		351	Demonstrate the effect of
test ave in comparison with the			Ephedrine on the light reflex in the
test eye in comparison with the			test eye in comparison with the
control eye.			control eye.
Effects of 352 Demonstrate the effect of	Effects of	352	Demonstrate the effect of
Parasympatholytic Tropicamide on the size of the	Parasympatholytic		Tropicamide on the size of the
drug (e.g., pupil in the test eye in comparison	drug (e.g.,		pupil in the test eye in comparison
Tropicamide) on with the control eye.	Tropicamide) on		with the control eye.
rabbit's eye	rabbit's eye		

	353	Demonstrate the effect of
		Tropicamide on the colour of the
		conjunctiva in the test eye in
		comparison with the control eye.
	354	•
	334	Tropicamide on the corneal reflex
		·
		in the test eye in comparison with
	255	the control eye.
	355	Demonstrate the effect of
		Tropicamide on the light reflex in
		the test eye in comparison with the
		control eye.
Effects of Local	356	Describe the mechanism of action
anaesthetic (e.g.,		of Proparacaine regarding its
Proparacaine) on		effects on the eye.
rabbit's eye		
	357	Demonstrate the effect of
		Proparacaine on the size of the
		pupil in the test eye in comparison
		with the control eye.
	358	Demonstrate the effect of
		Proparacaine on the colour of the
		conjunctiva in the test eye in
		comparison with the control eye.
	359	Demonstrate the effect of
		Proparacaine on the corneal reflex
		in the test eye in comparison with
		the control eye.
	360	Demonstrate the effect of
		Proparacaine on the light reflex in
		the test eye in comparison with the
		control eye.
To identify an	361	Demonstrate the effect of the
unknown drug on		unknown drug on the size of the
rabbit's eye		pupil in the test eye in comparison
Tubble 3 cyc		with the control eye.
		with the control eye.

		361	Demonstrate the effect of the
			unknown drug on the colour of the
			conjunctiva in the test eye in
			comparison with the control eye.
		362	Demonstrate the effect of the
			unknown drug on the corneal reflex
			in the test eye in comparison with
			the control eye.
		363	Demonstrate the effect of the
			unknown drug on the light reflex in
			the test eye in comparison with the
			control eye.
		364	Interpret the results.
		365	Identify the unknown drug.
Forensic			Construct a full autopsy report
medicine	Autopsy report	366	including all components after
medicine			thorough examination.
	Toxicology Sample		Explain the procedures, organ
	collection	367	needed, and preservation used in
	Concenion		sample collection.
	Toxicology Report		interpret the toxicology report
	Analysis	368	received and then incorporate it in
			final opinion.
	Thanatology	369	Identify and describe various
	Thanatology	307	models of post-mortem changes
	Stomach wash	370	Perform stomach wash on a
	Scomacii Wasii	370	manikin