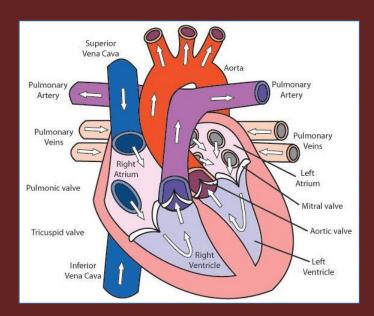


Question Paper Series

D. Pharm (Second Year)

PHARMACOLOGY & TOXICOLOGY

First Edition: January 26, 2021



By: Dr. A. K. Gupta

Publishing Partner

Association of Pharmaceutical Teachers of India (U.P.) &

The Association of Young Pharma Professionals

Pharmacology and Toxicology

D. Pharm (Second Year)
PHB Question Paper Series

First Edition: 26 January 2021

By:

DR. ARVIND GUPTA
(M.Pharm, PDCR, M.Sc & Ph.D)
(GATE 2003 97.22 Percentile)

Publishing Partner

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Preface

It is with great pleasure that we introduce the PHB question paper series "Pharmacology and Toxicology" for D. Pharma students. The PHB question paper series try to prepare and collect the question papers of Uttar Pradesh and Haryana technical board and some other university papers for practice. In future PHB add the question paper of various universities in this series.

All efforts have been made to keep the text error-free. Any suggestions and constructive comments would be highly appreciated and incorporated in the future edition. My sincere thanks are due to my colleagues for their valuable comments and suggestions.

Dr. A. K. Gupta

Dedicated

to

My Family

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D. Pharm Second Year Pharmacology and Toxicology Practice Paper Paper Code: PHB2301

3 Hours	/	80	Marks	Roll	No.							
Instructions –	- (1) A	All Q	uestions are Co	mpulsory.								_
	(2)	Answ	er each next m	ain Question	n on a nev	w pag	je.					
	(3) I	Figur	es to the right i	ndicate full	marks.							
			le Phone, Pager issible in Exam	•		ronic (Comn	nunic	atio	n de	vices	are not
										I	Marl	KS
1. Define the	he fol	lowi	ng terms with	two examp	les of eac	ch (an	y <u>EI(</u>	HT):			[16]
a) Cher	nothe	rapy										
b) Anti	emeti	c										
c) Haer	nosta	tic										
d) Anti	arrhyt	thmic	e agents									
e) Vern	nicida	1										
f) Auta	coids											
g) Fibri	nolyt	ics										
h) Anal	leptics	S										
i) Expe	ctorai	nts										
j) Diure	etics											
2. Attempt	any <u>F</u>	'OUI	\mathbf{R} of the follow	ving:								[16]
a) Defin	ne ph	arma	codynamics. Ex	xplain diffe	rent mech	anism	s of d	lrug a	ctic	n.		
b) Expl	ain pl	lasma	a protein bindin	g of drugs a	and give i	ts sign	ificai	nce.				
c) Defin	ne ant	tagon	ism. Differenti	ate between	competit	ive an	d nor	1- coi	npe	titive	;	
antag	onisn	1.										
d) Clas	sify o	ral h	ypoglycemic w	ith example	s. Give m	nechan	ism c	of act	ion	of me	etfor	min.

e) Define drug metabolism. Explain first pass effect.

3. Attempt any **FOUR** of the following:

[16]

- a) Name the drug producing following effect:
 - (i) Osteoporosis
 - (ii) G 6 P D deficiency
 - (iii) Hypoglycemia
 - (iv) Hyperplasia of gums
 - (v) Extrapyramidal effect
 - (vi) Systemic alkalosis
- b) Mention the drug of choice in following condition:
 - (i) Rheumatoid arthritis
 - (ii) Candidiasis
 - (iii) Atherosclerosis
 - (iv) Skeletal muscle spasm
- c) Mention the drug contraindicated in following condition:
 - (i) Gastric bleeding
 - (ii) Hypokalemia
 - (iii) Edema
 - (iv) Myasthenia gravis
 - (v) Lactation
 - (vi) Congestive cardiac failure
- d) Give dose of following drugs:
 - (i) Omeprazole
 - (ii) Albendazole
 - (iii) Diazepam
 - (iv) Diclofenac
 - (v) Metoprolol
 - (vi) Pioglitazone
- e) Give adverse drug reaction of following drug:
 - (i) Rifampicin
 - (ii) Nitroglycerin

- (iii) Ibuprofen
- (iv) Digitalis
- (v) Insulin
- (vi) Kanamycin.

4. Attempt any **FOUR** of the following:

[16]

- a) Classify antiasthmatic agents with examples.
- b) Give the pharmacological profile of adrenaline.
- c) Define haematinics. Explain: Vitamin B12 injection is given in pernicious anemia.
- d) Define epilepsy. Justify. During the treatment of epilepsy antiepileptic drugs should not be withdrawn abruptly.
- e) Classify parasympathomimetics with examples
- f) Discuss the stages of general anesthesia. Give two examples of parentally administered general anasthetics.

5. Attempt any **FOUR** of the following:

[16]

- a) Classify antihypertensive agents with examples.
- b) What is cancer? Give examples of two anticancer drugs. Mention common side effects of anticancer drugs.
- c) Classify antibiotics with examples.
- d) Define analgesics. Justify: Morphine should not be given in abdominal pain.
- e) Give pharmacological profile of aspirin.
- f) Give symptoms and management of acute barbiturate poisoning.

D. Pharm Second Year Pharmacology and Toxicology HSBTE Dec 2019 Paper Code: PHB2302

3 Hours / 80 Marks Roll No.

/	80 Marks	Koll No.				

SECTION-A

Note: Objective type questions. All questions are compulsory.

(10x1=10)

- Q.1 Define Pharmacodynamics.
- Q.2 Drugs which influence the formation of blood are called.
- Q.3 Classify Analgesic.
- Q.4 Full form of CHF.
- Q.5 Define Autacoids with examples.
- Q.6 Define Bactericidal.
- Q.7 Give examples of diuretics.
- Q.8 DOTS stands for.
- Q.9 Define Chemotherapy.
- Q.10 Write two examples of Anti cancer drugs.

SECTION-B

Note: Very short answer type questions. Attempt any five questions out of seven questions. (5x3=15)

- Q.11 Mechanism of drug action.
- Q.12 Write about Local anesthetic.
- Q.13 Define expectorants and antitussive with examples.
- Q.14 Write in brief about histamine.
- Q.15 Discuss about anti-coagulants.
- Q.16 Oral contraceptives.
- Q.17 Discuss in brief about Urinary tract infection.

SECTION-C

Note: Short answer type questions. Attempt any five questions out of seven questions. (5x5=25)

- Q.18 Define absorption. Enumerate various factors affecting absorption.
- Q.19 Write a note on anti convulsants agents.
- Q.20 Discuss in detail about NSAIDS.
- Q.21 Classification of anti diuretics drugs with examples.
- Q.22 Write a short note on Antihypertenisve Agents.
- Q.23 Drugs used in Peptic ulcer.
- Q.24 Write a brief note on Antifungal agents.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

- Q.25 Discuss in detail about various routes of drugs administration.
- Q.26 Discuss in details about drugs used in bronchial asthma.
- Q.27 Explain in detail the chemotherapy of cancer along with classification, mechanism of action and uses of drug of choice.
- Q.28 Define chemotherapy. Classify various types of antibiotics with examples.

D. Pharm Second Year Pharmacology and Toxicology HSBTE May 2019 Paper Code: PHB2303

3 Hours	/ 80 Marks	Roll No.					
	SEC	CTION-A					
Note: Objecti	ive type questions. All que	stions are comp	ulsory.				(10x1=10)
Q.1 Define	Pharmacology.						
Q.2 What i	is Biotransformation of Dru	ugs?					
Q.3 Name	Adrenergic Neurotransmitt	ter.					
Q.4 Pain re	eliving medicines are know	n as					
Q.5 Levodo	opa is used in the treatment	t of					
Q.6 Give tv	wo side effects of Tetracyc	lines.					
Q.7 Conges	stive Heart Failure.						
Q.8 Two ex	xamples of Autocoid.						
Q.9 Write t	two uses of Diuretics.						
Q.10 Angir	na Pectoris.						
	SECT	ION-B					
Note: Very s	short answer type questions	s. Attempt any f	ive ques	tions	out of	seven	questions. (5x3=15)
Q.11 Give	advantages of oral route of	f administration					
Q.12 What	are Narcotic Analgesics?	Give Examples.	•				
Q.13 Class	sify Antiarrhythmic Agents	•					

Q.17 Write short on Antihistamines.

Q.16 Enlist various classes of Diuretic agents.

Q.14 Write Short Note on Antacids.

Q.15 Adverse effects of Penicillin.

SECTION-C

Note: Short answer type questions. Attempt any five questions out of seven questions. (5x5=25)

- Q.18 Describe general mechanisms of drug action.
- Q.19 Differentiate between Local and General Anaesthetics.
- Q.20 Uses of Penicillin.
- Q.21 What is Peptic Ulcer? Give its treatment.
- Q.22 Classify Antihypertensive Agents.
- Q.23 Define Antiseptics and Disinfectants with examples.
- Q.24 Explain Analeptics.

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

- Q.25 Classify and add a note on each class of Anticancer Agents.
- Q.26 Explain Sedative and Hypnotic agents in detail.
- Q.27 Enlist various Anti tubercular agents and give different regimes in treatment of Tuberculosis.
- Q.28 Describe pharmacological actions, adverse effects and uses of Atropine.

D. Pharm Second Year Pharmacology and Toxicology Paper Code: PHB2304

Ti	ne:	Thr	ee Hours]		[Maximum Marks: 80
N	ote :	At	tempt total <i>six</i> questions. Question N	o.1 is compulsory.	
		F	rom the remaining question attempt a	ny five .	
1.	a)	Ex	plain the terms (Any 5)		[5]
		j)	Therapeutic Index ii)	Competitive Antagonism	1
		iii)	Affinity iv) Intrinsic Activity	
		v)	Drug Dependence vi) Idiosyncrasy	
	b)	Fil	l in the blanks.		[5]
		i)	The normal sleep cycle comprises_	andsleep.	
		ii)	The anaemic caused by deficiency	of folic acid is called as	<u></u> .
		iii)	Rifampicin is obtained from		
		iv)	Chloramphenicol producessyn	ndrome.	
		v)	Isosorbide dinitrate is given through	theroute.	
		vi)	Sulfonamides arein presence	e of pus-formation.	
2.	Att	emp	ot any two.		[2×7=14]
	a)		plain 'Pharmacokinetics' and 'Pharmetabolism.	acodynamics'. Discuss the	process of drug
	b)	En	list route of administration. Discuss the	ne advantages and disadva	ntages of oral route.
	c)	W	rite note on any two.		
		i)	Protein Binding		
		ii)	Bioavailability		
		iii)	Biological Barriers		
3.	Att	emp	ot any two.		[2×7=14]
	a)	Di	scuss Drug-Drug interaction with suita	able examples.	

- Classify General Anaesthetics. Discuss the various stages of Anaesthesia. b) Write a note on 'Preanesthetic Medications'. c) Attempt any two.
- $[2 \times 7 = 14]$
 - Classify Sedatives and Hypnotics. Discuss the pharmacology of phenobarbitone. a)
 - Give the pharmacology and therapeutic uses of phenothiazines. b)
 - Write note on any onec)
 - Anti-Gouts Drugs i)
 - Anti-Rheumatic Drugs
- $[2 \times 7 = 14]$ Attempt any two.
 - Classify Anticholinergics with examples. Give the pharmacology of Acetylcholine. a)
 - Explain the action of Adrenaline on Blood vessels and Blood pressure. b)
 - Write note on "Drugs used in peptic ulcer" c)
- Attempt any two. $[2 \times 7 = 14]$
 - Classify arrhythmias and arrhythmias drugs with examples. a)
 - Classify cardiotonic agents. Give the mechanism action of Digitalis. b)
 - Write note on any two. c)
 - Vasodilators **i**)
 - Antidiuretic Hormones i)
 - **Loop Diuretics**
- Attempt any two. $[2 \times 7 = 14]$
 - Write note on a)
 - Antibiotic Resistance
 - Super -infection ii)
 - Give reasons for the followingsb)
 - i) Vitamin B6 is given with Isoniazid
 - ii) Amoxycillin is given with clavulanic acid
 - Treatment of cancer is difficult

- iv) Probenecid is given with penicillin
- c) Classify antimalarial drugs with example. Give the life cycle of Malarial parasite.
- **8** Write the category, Mechanism of action, therapeutic uses and adverse effect of the following (Any 7)

 $[7 \times 2 = 14]$

- a) Penicillin
- c) Tetracycline
- e) Chloroquine
- g) Isoniazid
- i) Albendazole
- k) Acyclovir

- b) Chloramphenicol
- d) Rifampicin
- f) Methotrexate
- h) Metronidazole
- j) Doxorubicin

D. Pharm Second Year Pharmacology and Toxicology Paper Code: PHB2305

Time: Three Hours] [Maximum Marks: 80 **Note** : i) Attempt total *six* questions. Question No.1 is compulsory. iii) Illustrate your answer with neat sketches wherever necessary. Define following terms with suitable example of each (Any five) [10] Cardiotonics Ectoparasiticides b) Mucolytics c) Laxatives d) Hypnotics e) Neuroleptics f) Hematinics Attempt any four of the followings [14] Discuss different types of epilepsy. a) Write a note on neuromuscular blocking agents. b) Discuss the factors modifying drug action. d) Elaborate the term Arrhythmia. Write a note on sympatholytics. Differentiate between [14] Local anaesthetics and general anaesthetics Hypnotics and sedative b) Ranitidine and omeprazole c) Warfarin and Heparin Write short notes on (Any four) [14] Antimalarial agents

ACE inhibitors

Stages of general anaesthesia d) Cytotoxic agents Angina Pectoris Discuss various factors affecting absorption of drugs. [14] OR Give pharmacology of Aspirin. Answer the following: [14] Write a note on 5- HT. Elaborate term parkinsonism. b) Write a brief note on parasympathomimetics. c) Classify antihypertensive agents with suitable examples of each class. Attempt any four of the following. [14] Give mechanism of action, adverse effect and uses of penicillin. Write a note on myasthenia gravis. b) Write a brief note on Narcotic analgesics. c) Discuss antipsychotic agents. d) Give mechanism of action, interaction, adverse effect and uses of loop diuretics.

	Roll	No
		Code No.: PHB2306
	BTE (U.P.) ANNUAL EXAMINATION – 20	
	[Final Year] Two Years Diploma Course in Pharmacy [[214]
Tir	PHARMACOLOGY & TOXICOLOGY me: 3.00 Hours]	[Maximum Marks: 80
111	ne. 5.00 Hours	[waxiiiuiii waiks. 60
NOTE		
	i) i) Attempt ALL questions.	
	ii) Answer each next main Question on a new page.	
	iii) Figures to the right indicate full marks.	
	iv) Use of Pager and Mobile Phone by the students is not allowed.	
Q1) Ar	nswer any two of the following in detailed:	[2x8=16]
a)	Describe the mechanism of drug absorption and give a short note on factor a	ffecting metabolism,
	distribution and excretion of drugs.	
b)	Local anaesthetic drugs	
c)	Write a note on cholinergic and anticholinergic drugs and its pharmacological	al actions.
O2) W	rite a short note on classification of drugs with examples (any four of the following)	owing): [4x4=16]
a)	Antiparkinsonian drugs	<i>S</i> / L J
b)	Non – steroidal anti-inflammatory drugs (NSAIDs)	
c)	Antacids	
d)	Anticonvulsants	
e)	Diuretics	
O3) W	rite a brief note on any two of the following:	[2x8=16]
a)	Antiarrhythmic drugs	
b)	Antihypertensive drugs	
c)	Give a short note, drugs used in glaucoma.	
Q4) W	rite a notes on any four of the following:	[4x4=16]
a)	Neuromuscular blockers	
b)	General anaesthetic drugs	
c)	Respiratory stimulants	
d)	Blood substitutes and plasma expanders	
e)	Cardiotonic	

Q5) Give a brief note on any two of the following:

[2x8=16]

- a) Antidepressants and antianxiety drugs
- b) Antitubercular drugs
- c) Antimalarial drugs

Roll No	
	Code No.: PHB2307
BTE (U.P.) ANNUAL EXAMINATION – 2016	
[Final Year] Two Years Diploma Course in Pharmacy [214]	
PHARMACOLOGY & TOXICOLOGY Time: 3.00 Hours] [Maximum of the content of the conten	mum Marks: 80
[
NOTES:	
v) i) Attempt ALL questions.	
vi) Answer each next main Question on a new page.	
vii) Figures to the right indicate full marks.	
viii) Use of Pager and Mobile Phone by the students is not allowed.	
Q1) Answer any two of the following in detailed:	[2x8=16]
a) Write a note on mechanism of drug action and factors affecting drug action.	
b) Write a note on drug used for peptic ulcer.	
c) Diuretics and Antidiuretics.	
Q2) Write a short note on classification of drugs with examples (any four of the following):	[4x4=16]
a) Non – steroidal anti-inflammatory drugs (NSAIDs)	
b) Anticholinergic drugs	
c) Local anaesthetic drugs	
d) Antitussive drugs	
e) Bronchodilators	
Q3) Write a short note on any two of the following:	[2x8=16]
a) Antacids	
b) Expectorants	
c) Anticoagulants	
Q4) Write a notes on any two of the following:	[2x8=16]
a) Antipsychotic drugs	
b) Drugs used in myasthenia gravis	
c) Physiological action of serotonin	
Q5) Give a brief note on any two of the following:	[2x8=16]
a) Antifungal and Antileprotic drugs	
b) Disinfectants and antiseptics	
c) Antiprotozoal drugs	

Roll No	
	Code No. : PHB2308
BTE (U.P.) ANNUAL EXAMINATION – 2017	
[Final Year] Two Years Diploma Course in Pharmacy [214]	
PHARMACOLOGY & TOXICOLOGY Time: 3.00 Hours] [Maxin	mum Marks: 80
Time. 5.00 Hours	mam warks. 60
NOTES:	
ix) i) Attempt ALL questions.	
x) Answer each next main Question on a new page.	
xi) Figures to the right indicate full marks.	
xii) Use of Pager and Mobile Phone by the students is not allowed.	
Q1) Answer any two of the following in detailed:	[2x8=16]
a) Write a note on mechanism of drug action and factors affecting drug action.	
b) What are antihypertensive? Give the classification with suitable example.	
c) Discuss in detailed about various methods of drug absorption and metabolism.	
Q2) Write a short note on classification of drugs with examples (any four of the following):	[4x4=16]
a) Anticonvulsants	
b) Vasodilators	
c) Diuretics and Antidiuretics	
d) Antiparkinsonian drug	
e) Narcotic analgesics	
Q3) give a brief note on any two of the following:	[2x8=16]
a) Antiarryhythmic drugs	
b) Urinary antiseptics	
c) Antifungal drugs	
Q4) Write a detailed notes on any two of the following.	[2x8=16]
a) Haematinics	
b) Neuromuscular blockers	
c) cardiotonics	
Q5) Give a brief note on any two of the following:	[2x8=16]
a) Expectorants and antitussives	
b) Antidiarrheal drugs	
c) Anti- rheumatic	

	Roll	No
		Code No. : PHB2309
	BTE (U.P.) ANNUAL EXAMINATION – 2	
	[Final Year] Two Years Diploma Course in Pharmacy	[214]
Tiı	PHARMACOLOGY & TOXICOLOGY me: 3.00 Hours]	[Maximum Marks: 80
		[
NOTE		
	xiii) i) Attempt ALL questions.	
	xiv) Answer each next main Question on a new page.	
	xv) Figures to the right indicate full marks.	
	xvi) Use of Pager and Mobile Phone by the students is not allowed.	
Q1) De	escribe any two of the following:	[2x8=16]
a)	General anaesthetics	
b)	Centrally acting muscle relaxant	
c)	Anticholinergic drugs	
Q2) W	rite a short note on classification of drugs with examples (any four of the following)	owing): [4x4=16]
a)	Anticonvulsants	
b)	Analeptics	
c)	Diuretics	
d)	Narcotic analgesics	
e)	Antiparkinsonian drug	
Q3) W	rite a short note on any two of the following:	[2x8=16]
a)	Drugs acting on eye (glaucoma)	
b)	Cardiotonics	
c)	Antihistamines	
Q4) W	rite short notes on any four of the following.	[4x4=16]
a)	Antianginal drugs	
b)	Antiviral drugs	
c)	Antiemetics	
d)	Penicillins	
e)	Anthelmintic drugs	
Q5) Gi	ve a brief note on any four of the following:	[4x4=16]
a)	Sulfonamide	

- b) Tetracycline
- c) Antitubercular drugs
- d) Oral hypoglycaemic drugs
- e) Antispasmodic drugs

Roll N	0
	Code No.: PHB2310
BTE (U.P.) ANNUAL EXAMINATION – 20	
[Final Year] Two Years Diploma Course in Pharmacy [2	214]
PHARMACOLOGY & TOXICOLOGY Time: 3.00 Hours]	[Maximum Marks: 80
NOTES:	
xvii) i) Attempt ALL questions.	
xviii)Answer each next main Question on a new page.	
xix) Figures to the right indicate full marks.	
xx) Use of Pager and Mobile Phone by the students is not allowed.	
Q1) Answer any two of the following:	[2x8=16]
a) Factors modifying drug action.	
b) Give advantages and disadvantages of oral and systemic routes of drug admin	istration.
c) What are general anaesthetics? Give advantages and disadvantages of Nitrous	Oxide.
Q2) Give Pharmacological classification and examples of any four of the following:	[4x4=16]
a) Anti-Convulsants	
b) Anti-Cholinergic drugs	
c) Anti-Parkinsonism drugs	
d) Anti-Fungal drugs	
e) Anti-Helminthic drugs	
Q3) Describe briefly any two of the following:	[2x8=16]
a) Anti-emetics	
b) Anti-tubercular drugs	
c) Anti-Cholinestrase drugs	
Q4) Write short notes on any two of the following categories of drugs.	[2x8=16]
a) Sulphonamides	
b) Hypoglycemic agents	
c) Anti-Coagulants	
Q5) Give informative notes on any two of the following:	[2x8=16]
a) Physiological role of Histamine and serotonin	
b) Corticosteroids	
c) Expectorants and Antitussive	

Re	oll No
	Code No.: PHB2311
BTE (U.P.) ANNUAL EXAMINATION -	
[Final Year] Two Years Diploma Course in Pharma	cy [214]
PHARMACOLOGY & TOXICOLOGY Time: 3.00 Hours]	[Maximum Marks: 80
Time. 3.00 Hours	[Maximum Marks. 00
NOTES:	
xxi) Attempt ALL questions.	
xxii) Answer each next main Question on a new page.	
xxiii)Figures to the right indicate full marks.	
xxiv)Use of Pager and Mobile Phone by the students is not allowed.	
Q1) Give classification and example of any two of the following:	[2x8=16]
a) Antifungal agents	
b) Antitubercular drugs	
c) Antihistamines	
Q2) Write a notes on any two of the following:	[2x8=16]
a) Local anaesthetics	
b) Drugs used in glaucoma	
c) Diuretics	
Q3) Explain pharmacological classification with the help of examples of any four	of the following: [4x4=16]
a) Adrenergic drugs	
b) Hypoglycemic agent	
c) Antiviral drugs	
d) Antihypertensive	
e) Antidiarrheal	
Q4) Define Mydriasis. Write in detail about drugs used in myasthenia gravis.	[16]
Q5) Explain any four of the following:	[4x4=16]
a) Antiarrhythmic	
b) Antacids	
c) Drugs acting on respiratory system	
d) Antithyroid drugs	
e) Penicillin	



Editor-in-Chief (M. Pharm, PDCR & Ph.D) GATE 2003 97.22 Percentile

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