

APRIL - 1991

045

THIRD B.PHARM. DEGREE EXAMINATION, APRIL, 1991.

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours.

Maximum : 100 marks.

Answer any FIVE questions.

All questions carry equal marks.

1. Describe the different chemical reactions that occur to metabolise drugs in the body. Why are the drugs metabolised by the human body ?
2. Describe the method of bioassay of a sample of Insulin.
3. Describe the toxicity of and treatment of the poisoning due to
 - (a) Pesticides.
 - (b) Strychnine.
4. Classify the anticonvulsant drugs. Write the pharmacological actions and mechanism of action of phenytoin sodium.
5. What are the muscarinic and nicotinic actions of acetylcholine ? Describe the important actions and uses of physostigmine.

6. Describe the pharmacological actions, uses and toxicity of digitalis.
7. Write briefly on :
 - (a) Vitamin D
 - (b) Antithyroid drugs.
 - (c) Prostaglandins.

045

THIRD B.Pharm. DEGREE EXAMINATION, OCTOBER 1991.

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Describe the factors affecting the absorption of weakly acidic and weakly basic drugs in stomach and intestines.
2. Describe a method of bioassay to determine the potency of an injection of extract of posterior pituitary gland for its oxytocic activity.
3. Describe the toxicology of
 - (a) Carbonmonoxide and
 - (b) Atropineand write how the poisoning due to the above is treated.
4. Enumerate different classes of sedative hypnotic drugs. Give the chief pharmacological actions and uses of barbiturates.
5. Describe the chief pharmacological actions of adrenaline. Mention its uses. What is meant by Vasomotor reversal phenomenon of Dale?
6. Classify the antacid drugs. Describe the merits and demerits of different antacids.

7. Write briefly on :

- (a) Anti-histamines.
 - (b) Angiotensin-II.
 - (c) Chlorothiazide.
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APRIL - 1993

[RS 543]

THIRD B.Pharm. DEGREE EXAMINATION.

(Old Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Describe the types of assays. Discuss their merits and demerits. Mention the importance of immunoassay.
2. Give an account of drugs causing dependence. Describe how the treatment of Morphine addiction differs from Morphine poisoning.
3. Discuss the advantage of the following combination of drugs
 - (a) Digitalis + Potassium Supplement – in congestive cardiac failure.
 - (b) Antihypertensives + Diuretics – in hypertension.
 - (c) Nitrates + β Blockers – in angina pectoris.
 - (d) Adrenaline + Antihistamines – in anaphylaxis.
4. Give the reason for the use of the following :
 - (a) Oximes in Organophosphorus poisoning.
 - (b) Physostigmine in Atropine poisoning.

5. Discuss chemical incompatibility with examples.
 6. Mention the common features of Aminoglycoside antibiotics, their toxicity and use.
 7. Write briefly on :
 - (a) Newer Insulins.
 - (b) Newer synthetic Glucocorticoids.
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APRIL - 1993

[R B 554]

THIRD B.Pharm. DEGREE EXAMINATION.

PHARMACOLOGY AND TOXICOLOGY

(New Regulations)

Time : Three hours.

Maximum : 90 marks.

Two and a half hours
for Sections A and B

Section A and B : 80 marks.

Answer Sections A and B in separate answer books.
Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Discuss in detail the different methods of Biotransformation of drugs with suitable examples. Mention the factors which affect biotransformation of drugs.
2. Enumerate the non-steroidal antiinflammatory analgesics. Discuss the pharmacological actions and uses and adverse effects of aspirin.
3. Write short notes on :
 - (a) Nitrous oxide
 - (b) Nifedipine
 - (c) Pentazocine
 - (d) Mebendazole
 - (e) Diazepam.
4. Write briefly on :
 - (a) Bioassay of oxytocin
 - (b) Vitamin A

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. Classify anticholinesterases. What is the line of treatment in Organophosphorous poisoning ?
6. Classify sulphonamides. Discuss their clinical uses and adverse effects.
7. What are the therapeutic uses and adverse effects of Digoxin ?
8. Mention two important uses and two important toxicities of the following drugs :
 - (a) Tetracycline
 - (b) Frusemide
 - (c) Diphenyl hydantoin sodium
 - (d) Lidocaine
 - (e) Ibuprofen.
9. Write briefly on :
 - (a) Broad spectrum penicillins
 - (b) Alkylating agents.
10. Enumerate the different groups of drugs used in peptic ulcer.
11. Classify antiamoebic drugs. Mention the doses and routes of administration of
 - (a) Metronidazole
 - (b) Emetine
12. Which are the primary antituberculous drugs. Mention their doses, routes of administration and important toxicities.
13. List down the preparations of
 - (a) Insulin
 - (b) Iron.

NOVEMBER - 1993

[P R 165]

THIRD B.Pharm. DEGREE EXAMINATION.

(Old Regulations)

Paper III -- PHARMACOLOGY AND TOXICOLOGY

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

1. (a) Discuss the factors determining the Bioavailability of drugs.

Or

- (b) The factors modifying drug action.
2. Write the line of management of :
(a) Methyl alcohol poisoning.
(b) Barbiturate poisoning.
3. Discuss the therapeutic ~~uses and side effects~~ of Salicylates.
4. Give an outline of the pharmacology of drugs acting at myoneural junction.
5. Write briefly on :
(a) Status asthmaticus.
(b) Nonsystemic antacids.
6. Give an account of antitubercular drugs.
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[PR171]

THIRD B.Pharm. DEGREE EXAMINATION.

(New Regulations)

PHARMACOLOGY AND TOXICOLOGY

Time : Three hours

Maximum : 90 marks

Two and a half hours
for Sections A and B

Sections A and B : 60 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. What is biological assay? What are the scope of biological assays? What are its merits and demerits? Write the principles involved in the biological assay of insulin.
2. Explain the mechanism of actions of the following :
 - (a) Obidoxime.
 - (b) Penicillin.
 - (c) Action of acetylcholine at the motor end plate.
3. Describe the pharmacological actions untowards effects and clinical uses with doses of ephedrine.

4. Write notes on :

- (a) Drug abuse.
- (b) Second messengers.

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. What is the fate of the transmitter released at the synapse?
6. Write on the toxic symptoms and time of treatment of toxicity due to atropine sulfate.
7. Compare and contrast the actions of adrenaline and digoxin.
8. What are prochiral and chiral drugs? What is the importance of chirality on drug action?
9. What are the mechanism of actions of drugs used in the treatment of goitre?
10. Classify antiarrhythmic drugs with examples.
11. Write notes on somatostatin.
12. Explain the mechanism of action of local anesthetics.
13. Write notes on cyanocobalamin.

NOVEMBER - 1994

[ND 582]

THIRD B.Pharm. DEGREE EXAMINATION

(Old Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours.

Maximum : 100 marks.

Answer any FIVE questions.

All questions carry equal marks.

1. Enumerate various factors modifying action of drugs.

Describe any *three* factors related to drug and *three* factors related to patient.

2. Classify drugs used in peptic ulcer with *two* examples for each group.

Describe the mechanism of action of any *three* of them.

List out *three* groups of drugs which precipitate peptic ulcer with *two* examples for each group.

3. Write briefly on any *four* of the following :

- (a) Plasma protein binding
- (b) Pre-anaesthetic medication
- (c) Methods of Bioassay
- (d) Organic nitrates
- (e) Oral contraceptives
- (f) Organophosphorous poisoning and its treatment.

[ND 582]

4. With the help of a neat diagram classify antihypertensive agents depending on their site of action. Give two examples for each group.

Describe the mechanism of action and toxicities of alpha methyl dopa and hydralazine.

5. Classify opioid analgesics with two examples for each group.

Describe the pharmacological actions and toxicities of morphine.

Add a note on morphine antagonists.

6. Enumerate the toxicities and therapeutic uses of any five of the following :

- (a) Chlorpromazine.
- (b) Atropine
- (c) Chloramphenicol
- (d) Acetyl salicylic acid
- (e) Digoxin
- (f) Gentamicin.

[ND 582]

7. Describe the mechanism of action of any five of the following:

- (a) Beta-lactam antibiotics
- (b) Spiranolactone
- (c) Sodium valproate
- (d) Neostigmine
- (e) Local anaesthetics
- (f) Tolbutamide.

APRIL - 1995

SB 587

SB 587

THIRD B.Pharm DEGREE EXAMINATION

(Old Regulations)

Paper III - PHARMACOLOGY AND TOXICOLOGY

Time: Three hours Maximum : 100 marks

Answer any FIVE questions

All questions carry equal marks

1. (a) Define 'analgesic'. Classify analgesics with examples. Describe the pharmacology, uses and toxicities of opioid analgesics. (14)

(b) Explain the terms:

1. Bioavailability
2. Enzyme induction
3. Receptor agonist and antagonist. (6)

2. Describe pharmacology of Cardiac glycosides. (20)

3. Write short notes on any FOUR

1. Drugs used in Amoebiasis
2. Pre-anaesthetic medication

3. Organophosphorous poisoning & treatment

4. Prostaglandins

5. Cyanocobalamin (5 x 4)

4. (a) Classify Purgatives with examples, explaining the mechanism of action, adverse effects & toxicities. Give therapeutic uses of laxatives. (14)

- (b) What are antiemetics? Classify them with suitable ~~examples~~ examples & explain their mechanism of action. (6)

5. Explain pharmacology, emergency and non-emergency uses & adverse effects of epinephrine. (20)

6. (a) Classify sulfonamides. Discuss their mechanism of action & mention the important therapeutic uses & toxicities of sulfonamides. (6 + 6 + 6)

- (b) What is cotrimaxazole? (2)

- . Write short notes on any FOUR

1. DeAddiction
2. Glucocorticoids
3. Barbiturate ~~xx~~ poisoning
4. Probenecid
5. Oximes.

APRIL - 1995

[SB 593]

THIRD B.Pharm. DEGREE EXAMINATION

(New Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours

Maximum : 90 marks

Two and a half hours

Section A and B : 60 marks

for Section A and B

Answer Section A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. (a) Define Bioassay. Explain general principles of bioassay. (1 + 4)
- (b) Describe the official bioassay of Vasopressin. (8)
- (c) What is student *t*-test? Give its significance. (2)
2. (a) Explain the following terms :
 - (i) Toxicology (ii) Pharmacotherapeutics (iii) Biotransformation. (6)
- (b) Explain — Dale's vasomotor reversal. (4)
- (c) What are anticholinesterases? Classify them giving examples. Give symptoms of organo-phosphorous poisoning. (1 + 2 + 2)

[SB 593]

3. (a) Define Autocoids. List out the various autocoids. (2 + 2)
(b) Give the pharmacology and significance of serotonin. (3)
(c) Write a note on antihistamines. (8)
4. (a) What is arrhythmia? List out the various arrhythmias and explain the reasons of arrhythmia. (1 + 5 + 3)
(b) Enumerate the various side effects and therapeutic uses of quinidine. (6)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. (a) Name three principles in treating acute poisoning. (3)
(b) Name the antidotes used in Curare poisoning and lead poisoning. (2)
6. Give sources, mechanism of action and therapeutic uses of heparin. Name the heparin antagonist. (5)
7. Give an account of strychnine poisoning. (5)
8. Write a short note on phenoxybenzamine. (5)
9. What are anti-gout drugs? (5)
10. Write a note on mechanism of alkylating agents. (5)

[SB 593]

11. Explain the rationale behind use of neostigmine and pyridostigmine in treatment of myasthenia gravis.
12. Describe the pharmacological actions and therapeutic uses of Procain hydrochloride.
13. Describe the pharmacology of Oral contraceptive
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NOVEMBER - 1995

MB 718

THREE B.PHARM DEGREE EXAMINATION

(Old Regulation)

PAPER III - PHARMACOLOGY AND TOXICOLOGY

Time: Three hours Maximum: 100 marks

Answer any FIVE Questions

All questions carry equal marks.

1. a) What are the factors that influence absorption of drug in G.I.T. (8)
- b) What are the advantages and disadvantages of giving medication orally. (6)
- c) Write briefly on protein binding. (6)
2. a) Classify Sympathomimetic agents with examples. (4)
- b) Describe the pharmacological actions adverse effects, toxic effects, therapeutic routes and doses of adrenaline. (16)
3. Write notes on
 - a) Drug deaddiction
 - b) Oral hypoglycemic agent

4. Enumerate the toxicities and therapeutic uses of any five of the following. (5 x 4)

- a) Reserpine
- b) Hexamethonium
- c) Vincristine
- d) Ecothiophate
- d) Minoxidil
- e) Chlorthiazide

5. a) Write briefly on Principles of bioassays. (8)

- b) Write short notes on any two (6 x 2)
 - (i) Systemic antacids
 - (ii) Castor oil
 - (iii) Warfarin sodium

6. a) Classify diuretics with examples. (6)

- b) Write one mechanism of action of different class of diuretics. (14)

7. Write short notes on any four (4 x 5)

- a) Second messengers
- b) Anaphylactic reaction
- c) Clinical applications of Laxatives
- d) Antibiotic resistance
- e) Insulin
- f) Digestants

NOVEMBER - 1995

[MB 724]

Third B. Pharm Degree Examination

(New Regulations)

Paper III - PHARMACOLOGY AND TOXICOLOGY

Time : Three hours Max : 90 marks

Two and a half hours Sec. A and B : 60 marks
for Sec. A and B

Answer section A and B in separate answer books

Answer section C in the answer sheet provided

SECTION—A (2×15=30)

Answer any TWO questions

1. Describe how drugs are detoxified and the factors influencing detoxification (15)
2. a) Describe the bioassay of ACTH (10)
b) Write short notes on receptors (5)
3. a) Classify histamine receptors with examples (3)
b) Describe the pharmacological actions of prostaglandins, adverse effects and therapeutic uses. (9)
c) What are the adverse effects of cimetidine (3)
4. a) Classify peripherally acting skeletal muscle relaxants with examples (4)
b) Write the mechanism of actions of Dantrolene, d-Tubocurarine (4)
c) Write the chemical applications of Lidocaine, neostigmine (4)
d) What are the applications of basal anaesthetic agents. (3)

SECTION—B

(6×5=30)

Answer any SIX questions

5. Write briefly on the regulation of receptors.
6. What are the principles involved in the treatment of poisoning
7. How are catecholamines metabolized.
8. Write the pharmacological actions of Digitoxin.
9. What are the effects of carbondioxide on respiration, circulation and CNS
10. What are the pharmacological actions of chlorpromazine.
11. Write notes on opioid antagonists.
12. What is chemoprophylaxis? What is its importance.
13. Write notes on cyclosporine.

APRIL - 1996

AK 720

THIRD B. PHARM DEGREE EXAMINATION

(Old Regulation)

Paper III - PHARMACOLOGY AND TOXICOLOGY

Time: Three hours Maximum: 100 Marks

ANSWER ANY FIVE QUESTIONS

All questions carry equal marks.

1. Enumerate different channels by which drugs are excreted with examples. Describe briefly how drugs are excreted by Kidney and how such excretion be delayed or inhibited, with examples. (20)
2. a) Classify Purgatives with examples. Describe briefly the mechanism of actions of irritant purgatives and osmotic purgatives.
b) What are carminatives and give examples. (10 x 2 = 20)
3. Write briefly on any four of the following:
a) Synergism b) Drug dependence
c) Sodium valproate d) Bioassay of Insulin
e) Alpha methyl dopa f) Methanol poisoning
(4 x 5 = 20)
4. Classify antiarrhythmic agents. Describe briefly the mechanism, toxicities

AK 720

of Quinidine, and Phenytoinsodium and Verapamil. (20)

5. Classify Antidepressants with examples. Describe the mechanism of action and adverse effects and interactions with other drugs of MAO inhibitors. (20)
6. Enumerate the toxicities and therapeutic uses of any five of the following:
a) Rifampicin b) Propranolol
c) Tetracycline d) Cyclophosphamide
e) Salicylates e) Betamethasone
(4 x 5 = 20)
7. Describe the mechanism of action of any five of the following:
a) Penicillins b) Furosemide
c) Succinyl choline d) Tolbutamide
e) Local anesthetics f) Acetazolamide

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[AK 746]

Subject Code : 4199

Third B. Pharm Degree Examination

(Revised Regulations)

Paper III - PHARMACOLOGY AND TOXICOLOGY

Time : Three hours. Maximum : 90 marks.

Two and a half an hours

for Section A and B Sec. A and B ; 60 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION—A (2X15=30)

Answer any TWO questions.

1. Describe the chemotherapy of malaria.
2. What are cardiac glycosides. Name them and describe the drugs used as anti arrhythmic agents.
3. What are endogenous amines. Name them and describe the actions of any two of them.
4. Classify the drugs used in hypertension and Discuss the mechanism of action and toxicity of any two of them.

SECTION —B

(6X5 = 30)

Answer any SIX questions.

All questions carry equal marks.

5. Write the principles involved in Bio-assays. Give examples.
6. Describe the mechanism of action of loop diuretics-give examples.
7. Name the drugs used as muscle relaxants. Mention their mode of action and give example in each case.
8. Describe the mode of Action & toxicity of sodium valproate.
9. Name and describe the mode of action of alkylating agent and mention their toxicity.
10. Write the structure activity relationship of xanthine derivatives.
11. Define the following terms :
 - a) Pharmacokinetic
 - b) Bio-availability
 - c) Bio-equivalence
 - d) Shelf life of drug
 - e) Biological half life of drug
 - f) Therapeutic index
12. Name the phenothiazines and write the actions and adverse reactions of any one of them.
13. Write briefly on semisynthetic glucocorticoids.

[MS 715]

Sub. Code : 4193

THIRD B.Pharm. DEGREE EXAMINATION.

(New Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours

Maximum : 90 marks

Two and a half hours
for Sections A and B

Sections A & B : 60 marks
Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Briefly describe various factors that modify the action of drugs. (15)
2. (a) Discuss the Bioassay of oxytocin. (10)
(b) Write short notes on Bioavailability. (5)
3. Briefly discuss about chemotherapy of cancer. (15)
4. (a) Classify adrenergic drugs with examples. (5)
(b) Discuss the mechanism of action of Alpha methyl-dopa and captopril. (5)
(c) Briefly discuss about prostaglandins. (5)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. Write briefly on competitive and non-competitive antagonisms.

[MS 715]

6. Discuss the symptoms and treatment of Mercury and Lead Poisoning.

7. Write the pharmacological actions of quinidine.

8. Write a short note on fluoro quinolones.

9. What are the pharmacological actions of chlorpromazine.

10. Write a short note on Zidovudine.

11. Briefly discuss about Drug toxicities.

12. Write briefly on cephalosporins.

13. Write briefly on H₂ receptor blocking agents.

OCTOBER - 1997

[MS 721]

Sub. Code : 4203

THIRD B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours

Maximum : 90 marks

Two and a half hours

Sec. A & B : 60 marks

for Sec. A and B

Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. (a) Classify anti-epileptic drugs and explain the treatment for various types of seizures. (8)
(b) Explain the mechanism of action of phenytoin and add a note on its drug interactions. (5)
(c) Describe the pharmacological evaluation of anti-convulsant drugs. (2)
2. (a) Define arrhythmias and classify anti-arrhythmic drugs. (5)
(b) Explain the pharmacological and undesirable effects of nitrites. (5)
(c) Name the various calcium channel blockers and mention the preparations and doses. (5)

[MS 721]

3. (a) Draw the schematic diagram of a nephron and classify the drugs according to their site of action. (8)
(b) Mention the mode of action of Thiazide diuretics and spiranolactone. (4)
(c) Mention the therapeutic uses and toxicity of diuretics. (3)
4. (a) Classify drugs used in the treatment of diabetes and explain the mechanism of action of sulphonylureas. (8)
(b) Illustrate the various preparations and doses of anti-diabetic drugs. (5)
(c) Describe the screening methods for hypoglycaemic compounds. (2)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. Define bio-assay and explain four point assay with example.
6. Explain the mechanism of action of anti-neoplastic drugs.
7. Write a detailed note on heavy metal poisoning and their treatment.
8. Define the terms Lethal dose 50, therapeutic index and acute and subacute toxicity studies.
9. Mention the important uses and side effects of corticosteroids.

[MS 721]

10. Define following terms with examples :
 - (a) Poisoning
 - (b) Synergism
 - (c) In-vitro studies
 - (d) Antagonists
 - (e) Receptor.
11. What do you understand by anti-ulcer therapy? Write a note on omeprazole.
12. Describe the principles of clinical pharmacology and add a note of pharmacokinetic studies.
13. Write a note on datura, plumbago and nerium.

[SV 715]

Sub. Code : 4193

THIRD B.Pharm. DEGREE EXAMINATION.

(New Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Classify antihypertensive agents. Explain the pharmacology of alpha-methyl dopa and captopril (5 + 5 + 5)
2. What is bioavailability? Discuss the various factors which affect the drugs bioavailability with examples. (2 + 13)
3. Classify antipsychotic drugs with examples. Explain the mechanism of action, pharmacological actions and toxicity of any one phenothiazine derivative. (5 + 10)
4. Write short notes on :
 - (a) Insulin preparations.
 - (b) Toxicities and therapeutic uses of morphine.
 - (c) Treatment of phenobarbitone poisoning. (5 + 5 + 5)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. Describe the methods of drug detoxification with suitable examples. (5)
6. Name the hormones of the adrenal cortex. Discuss the actions of glucocorticosteroids (2 + 3)

7. What are analgesics and anti-inflammatory agents? Add a note on aspirin. (2 + 3)
8. Describe the pharmacological actions of digitalis. (5)
9. What are sulpha drugs? Classify them? Discuss their mechanism of action and toxicity (1 + 1 + 2 + 1)
10. What is poisoning? Explain the symptoms and treatment of insecticide poisoning. (1 + 2 + 2)
11. Write notes on antimalarials. (5)
12. Describe the drugs used in the treatment of ascariasis. (5)
13. Discuss the differences between heparin and warfarin. (5)

[SV 721]

Sub. Code : 4203

THIRD B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours

Maximum : 90 marks

Two and a half hours

Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B

Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. (a) Define analgesics. Classify with suitable examples. (3)
(b) Write briefly the actions, uses and side effects of Acetyl salicylic acid. (9)
(c) What are the contraindications for aspirin? (3)
2. (a) What is an alkaloid? What are the source of antimuscarinic drugs? (3)
(b) Write briefly the actions, uses and side effects of atropine. (9)
(c) What are the differences between atropine and scopolamine? (3)
3. (a) What do you mean by the term antimicrobial agents? Explain with examples. (2)
(b) What are the mechanism of action of various antimicrobial agents? Explain with suitable examples. (4)
(c) Write briefly the actions, preparations, clinical uses and adverse effects of penicillins. Add a note on oral penicillins. (9)

4. (a) Define pharmacodynamics. (2)
(b) Describe in detail the mechanism of action of drugs with suitable examples. (8)
(c) What factors will modify the drug action explain with suitable examples? (5)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. The clinical use and side effects of diuretics.
6. Oral contraceptives.
7. I.V. general anaesthesia.
8. Drugs used in bronchial asthma.
9. Therapeutic uses and adverse effects of catecholamines.
10. Treatment of poison due to morphine.
11. Antimetabolites in cancer.
12. Antiemetics.
13. Insulin preparation.

APRIL - 1999

[SG 715]

Sub. Code : 4203

**THIRD B.Pharm. DEGREE EXAMINATION,
Paper III — PHARMACOLOGY AND TOXICOLOGY
(Common to Third Year – Revised Regulations and
Re-revised Regulations)**

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. (a) List out the processes of drug absorption. (2)
(b) What are the methods available to facilitate and delay drug absorption? (4)
(c) Explain with examples nine factors that can modify responses to drugs. (9)
2. (a) Classify cholinomimetic drugs, giving two examples for each class. (4)
(b) Mention the types of cholinergic receptors, explain the responses produced on stimulation of these receptors and the cellular mechanisms. (6)
(c) Enumerate the uses and toxicities of atropine. (5)

3. (a) Classify non-opioid analgesics according to their chemical structures, giving two examples per group. (4)
(b) Describe the beneficial pharmacological actions of aspirin with its mechanism of action. (7)
(c) Compare the opioids with non-opioid analgesics. (4)
4. (a) Define the terms with one example each : (2)
(i) Antibiotic (ii) Bacteriostatic.
(b) Explain the mechanisms of action of
(i) Sulphonamides (ii) Penicillins. (4)
(c) Describe the antibacterial spectrum, uses, toxicities and preparations of penicillins. (9)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. Describe the mechanism of action and clinical uses of digitalis.
6. Enumerate the uses and toxicities of corticosteroids.
7. Describe the symptoms and treatment of barbiturate poisoning.
8. Classify purgatives with examples and mention the uses and adverse effects of any one class.
9. What are the indications for H₁ antihistaminics? Mention their adverse effects.

10. Enumerate the drugs used in asthma, belonging to different classes. List out their major adverse effects.
11. Describe the mechanism of action, uses and adverse effects of alkylating agents.
12. Briefly describe the mechanisms of action of antiarrhythmic drugs.
13. Uses and adverse effects of fluoroquinolones.

[KA 715]

Sub. Code : 4203

THIRD B.Pharm. DEGREE EXAMINATION.

(Common to Revised and Re-Revised Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate Answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Define the term Agonist and Antagonist. Describe different types of drug antagonism with examples of each. (15)
2. (a) Discuss the bioassay of insulin. (7)
(b) Discuss shelf life and biological half life of drug. (8)
3. Discuss the chemotherapy of Malaria. (15)
4. (a) Discuss mode of actions of antiepileptic drugs. Give example of each.
(b) Discuss the pharmacological actions of terapamil.
(c) Discuss the actions of Neostigmine.

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

5. Discuss symptoms and treatment of strychnine poisoning.
6. Name the H_1 receptors blocking agents. Discuss the actions and uses of them.
7. Write note on Antacids and their uses.
8. Name anti arrhythmic drugs. Write a note on propranolol.
9. Write notes on Aminoglycosides as antibiotics.
10. Name muscarinic blocking agents. Discuss their action on eye.
11. Write note on basal anaesthetics.
12. Write note on xylocaine.
13. Write note on 5-HT (5 hydroxy tryptamine).

APRIL - 2000

[KB 715]

Sub. Code : 4203

THIRD B.Pharm. DEGREE EXAMINATION.

(Common to Third Year — Revised Regulations and
Re-revised Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Classify Analgesics. Describe in detail the pharmacological actions, therapeutic uses and adverse effects of morphine.
2. Enumerate the drugs used in hypertension according to their mechanism of action and discuss the pharmacology of Beta adrenoceptor blockers.
3. Classify the drugs used in Diabetes mellitus. Outline the pharmacology of orally effective antidiabetic drugs.

4. (a) Classify the drugs used in the treatment of peptic ulcer with two examples for each group. (6)

(b) Describe the mechanism of action and mention the toxicities of each group. (6 + 3)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. List out the different types of bioassay.

6. Describe the mechanism of action of cotrimoxazole as an antibacterial agent.

7. Explain the mechanism of action of oral contraceptives.

8. Explain the pharmacological basis of using ethyl alcohol in methyl alcohol poisoning.

9. Define the terms with one example for each :

- (a) Prodrug
- (b) Tachyphylaxis
- (c) Agonist
- (d) Tolerance
- (e) Therapeutic index.

10. Write down the basic structure required for barbiturates.

11. List out five important therapeutic uses of corticosteroids.

12. Classify peripherally acting skeletal muscle relaxants and describe the mechanism of action of different groups.

13. Explain the pharmacological basis of combining carbidopa with Levo-dopa.

OCTOBER - 2000

[KC 715]

Sub. Code : 4203

THIRD B.Pharm. DEGREE EXAMINATION.

(Common to Third Year — Revised Regulations and
Re-revised Regulations)

Paper III — PHARMACOLOGY AND TOXICOLOGY

Time : Three hours	Maximum : 90 marks
Two and a half hours	Sec. A & Sec. B : 60 marks
for Sec. A & Sec. B	Section C : 30 marks

Answer Sections A and B in separate answer books.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

All questions carry equal marks.

1. (a) Define Autocoids. List out the various autocoids. (2 + 2)
(b) Give the pharmacology and significance of Serotonin. (3)
(c) Write a note on antihistamines. (8)
2. (a) Define Bioavailability. (1)
(b) Describe three methods for delaying and three methods for accelerating absorption of drugs. (6)

(c) Describe the mechanism of action of the following : (8)

- (i) Digitalis
- (ii) Clonidine
- (iii) Penicillins
- (iv) Salicylates.

3. (a) Classify Hypnotics with examples. (3)

(b) Describe the actions, adverse reactions, mechanism of action and uses of Benzodiazepines. (8)

(c) Write a note on barbiturates. (4)

4. (a) Explain the following : (8)

- (i) Antimetabolites
- (ii) Dale's vasomotor reversal
- (iii) Tranquilizers
- (iv) Drug allergy.

(b) Define the following terms with one example : (4)

- (i) Prodrug
- (ii) Anxiolytic
- (iii) Antibiotics
- (iv) Antiemetic.

(c) Add a note on anticoagulants. (3)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. Define Bioassay. Explain general principles of bioassay.

6. Classify the drugs used in the treatment of peptic ulcer.

7. Write briefly on systematic and local treatment of poisoning.

8. Enumerate the drugs used in the treatment of Parkinsonism and discuss the mechanism of action of Levodopa.

9. Classify antiasthmatic drugs. Give the mechanism of action of Salbutamol.

10. Write short notes on :

- (a) Fluoroquinolones
- (b) Acyclovir.

11. What are the mechanism of actions of drugs used in the treatment of gout.

12. Write briefly on :

- (a) Second generation cephalosporins
- (b) Antifungal antibiotics.

13. Write notes on opioid antagonists.