

April 2001

[KD 545]

Sub. Code : 4066

SECOND M.B.B.S. DEGREE EXAMINATION.

(Non-Semester)

(Revised Regulations)

Paper VI — PHARMACOLOGY — II

Time : Three hours Maximum : 100 marks
Two and a half hours Theory : 70 marks
for Theory M.C.Q. : 30 marks
M.C.Q. : 30 minutes

M.C.Q. must be answered separately on the answer sheet provided.

Answer ALL questions.

Draw suitable diagram wherever necessary.

1. Classify glucocorticoids. (2)
Discuss their physiological and pharmacological actions. (6)
Mention their adverse effects. (3)
Outline the therapeutic uses and contraindications of glucocorticoids. (4)
2. Write briefly on : (4 × 5 = 20)
 - (a) Prokinetic agents
 - (b) Radioactive iodine
 - (c) Dimercaprol
 - (d) Insulin resistance.

3. Classify the Cephalosporins. (3)
Mention the antibacterial spectrum of Third generation Cephalosporins. (4)
Describe the drug therapy of Bacterial Meningitis. (6)
Outline the chemoprophylaxis of Meningitis. (2)
4. Write briefly on : (4 × 5 = 20)
 - (a) Sequential blockade
 - (b) Vinca alkaloids
 - (c) Cyclosporin
 - (d) Praziquantel.

[KE 545]

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(Revised Regulations)

Paper VI — PHARMACOLOGY — II

Time : Three hours Maximum : 100 marks

Two and a half hours Theory : 70 marks

for Theory M.C.Q. : 30 marks

M.C.Q. : 30 minutes

M.C.Q. must be answered separately on the answer sheet provided.

Answer ALL questions.

Draw suitable diagram wherever necessary.

SECTION A

1. (a) Classify penicillins. (2)
- (b) Discuss briefly the mechanism of action of penicillins. (2)
- (c) Compare the pharmacokinetic properties of penicillin G with aminopenicillins. (4)
- (d) What are the different preparations, therapeutic uses and adverse effects of penicillin G? (7)

2. Write briefly on : (4 × 5 = 20)
 - (a) Gentamycin
 - (b) Pyrantel pamoate
 - (c) Methotrexate
 - (d) Treatment of chloroquine resistant malaria.

SECTION B

3. (a) What are the steps in the synthesis of thyroid hormone? (2)
- (b) Classify antithyroid drugs. (2)
- (c) Discuss the mechanism of action of different groups of antithyroid drugs. (7)
- (d) What is the line of treatment for thyroid crisis (Thyroidstorm)? (4)
4. Write briefly on : (4 × 5 = 20)
 - (a) Hormonal contraceptives
 - (b) Oxytocin
 - (c) Scabicial agents
 - (d) Sulfonylureas.

[KC 545]

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SECOND M.B.B.S. DEGREE EXAMINATION.

(Non-Semester)

(Revised Regulations)

Paper VI — MEDICAL PHARMACOLOGY — II

Time : Three hours Maximum : 100 marks

Two and a half hours Sec. A & Sec. B : 70 marks

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

Section C must be answered separately on the answer sheet provided.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

SECTION A

- (a) Classify Tetracyclines. (2)
- (b) Mention the anti-bacterial spectrum of Tetracyclines. (2)
- (c) Discuss briefly the mechanism of action of Tetracyclines. (7)
- (d) Write briefly the adverse effects of Tetracyclines. (4)

- 2. Write briefly on : (4 × 5 = 20)
 - (a) Agents lowering serum lipids
 - (b) Oxytocics
 - (c) Immuno suppressants
 - (d) H₂ Receptor antagonists.

SECTION B

- 3. (a) Classify anti-fertility agents. (2)
 - (b) Mention the methods of administration of oral contraceptives. (2)
 - (c) Discuss in detail the mechanism of action of oral contraceptives. (7)
 - (d) Write briefly the important adverse effects of oral contraceptives. (4)
- 4. Write briefly on : (4 × 5 = 20)
 - (a) Mefloquine
 - (b) Antitussives
 - (c) Oral hypoglysemic agents
 - (d) Drugs used in AIDS.

[KJ 545]

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SECOND M.B.B.S. DEGREE EXAMINATION.

(Non-Semester)

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Paper VI — PHARMACOLOGY — II

Time : Three hours Maximum : 100 marks
Theory : Two hours and Theory : 80 marks
 forty minutes
M.C.Q : Twenty minutes M.C.Q : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

- I. Write Essay : (2 × 15 = 30)
- (1) (a) Mention antimalarial drugs. (2)
- (b) What is the mechanism of action and side effects of chloroquin? (7)
- (c) What are the other uses of chloroquin? (4)
- (d) How do you treat a chloroquin resistant malaria? (2)
- (2 + 7 + 4 + 2)

- (2) (a) Classify antituberculous drugs.
- (b) Describe the action, mechanism of action, uses and adverse effects of any one Tuberculocidal drug.
- (c) How do you treat a case of pulmonary tuberculosis? (3 + 2 + 2 + 2 + 2 + 4)

II. Write briefly on : (10 × 5 = 50)

- (a) Metronidazole.
- (b) Albendazole.
- (c) Erythromycin.
- (d) Lepra reaction.
- (e) Bacterial resistance.
- (f) Newer insulins.
- (g) Antioxidants.
- (h) Disease modifying drugs is Rheumatoid arthritis.
- (i) Epsilon amino Capronic acid.
- (j) Vitamin D.

[KL 545]

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(Non-Semester)

(Revised Regulations)

Paper VI — PHARMACOLOGY — II

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay : (2 × 15 = 30)

1. (a) Classify Penicillins.

(b) Discuss the mechanism of action uses and adverse effects of Penicillin G.

(c) Describe the various Betalactamase inhibitors and their uses. (4 + 6 + 5)

2. (a) Classify antiamoebic drugs

(b) Discuss the mechanism of action and side effects of metronidazole.

(c) What are the other uses of metronidazole.

(d) How do you treat invasive intestinal amoebiasis? (4 + 5 + 4 + 2)

II. Write briefly on : (10 × 5 = 50)

(a) Prokinetic anti emetic drugs

(b) Chloroquine

(c) Ciprofloxacin

(d) Dimercaprol

(e) Prophyl thiouracil

(f) Bisphosphonates

(g) Platinum compounds in cancer therapy

(h) Adverse effects Hormonal contraceptives

(i) Uses of glucocorticoids

(j) Scabicides.

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(Non-Semester)

(Revised Regulations)

Paper VI — PHARMACOLOGY — II

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay : (2 × 15 = 30)

(1) (a) Classify Oral Hypoglycaemic drugs

(b) Describe the mechanism of action of
sulfonyl ureas

(c) Write the adverse effects of sulfonyl
ureas

(d) Mention drugs which could interact
with sulfonyl ureas. (4 + 5 + 3 + 3)

(2) (a) Classify the drugs used in the
treatment of fungal infections

(b) Describe the mechanism of action of
imidazole antifungal drugs

(c) Write the therapeutic uses and adverse
effects of ketoconazole. (4 + 4 + 3 + 4)

II. Write briefly on : (10 × 5 = 50)

(a) Semisynthetic penicillins

(b) Treatment of tapeworm infestation

(c) Therapeutic uses of gentamicin

(d) Uterine stimulants

(e) Purine antagonists

(f) Omeprazole

(g) Drugs used in acute gout

(h) Drug induced parkinsonism

(i) Dimercaprol

(j) Ascorbic acid.

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(Non-Semester)

(Revised Regulations)

Paper VI — PHARMACOLOGY — II

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
 forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Write Essay : (2 × 15 = 30)

(1) (a) Classify drugs used in the treatment of peptic ulcer.

(b) Discuss in detail the anti-H. Pylori drugs and various regimens.

(c) Mention some prostaglandin analogues.

(d) List the proton pump inhibitors.
(2 + 7 + 4 + 2)

(2) (a) Classify adrenal cortical steroids.

(b) Describe the mechanism of action, pharmacological actions, adverse effects and therapeutic uses of glucocorticoids.

(c) How do you treat acute adrenal insufficiency? (3 + 2 + 2 + 2 + 2 + 4)

II. Write briefly on : (10 × 5 = 50)

(a) Cotrimoxazole

(b) Cefotaxime

(c) INH

(d) Artemisinin derivatives

(e) Albendazole

(f) Newer insulins

(g) Oral contraceptive pills

(h) Sun screens

(i) Interferons

(j) Auranofin.

- (2) (a) Classify anti-parkinsonian drugs.
- (b) Discuss the actions and adverse effects of L-dopa.
- (c) What are the benefits obtained by combining L-dopa with decarboxylase inhibitors?
- (d) Write two drugs inducing parkinsonism and how do you treat drug induced parkinsonism
(4 + 5 + 3 + 3)

II. Short notes : (10 × 5 = 50)

- (a) Bacterial resistance
- (b) Allopurinol
- (c) Management of chloroquine resistant malaria
- (d) Selective estrogen receptor modulators (SERM)
- (e) Anti Helicobacter pylori drugs.
- (f) Uses and Contraindications of Purgatives.
- (g) Hormone replacement therapy

- (h) Anti HIV agents
- (i) Dihydrofolate reductase inhibitors in therapy
- (j) Tocolytic agents.
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SECOND M.B.B.S. DEGREE EXAMINATION.

Revised (Non-Semester) Regulations

Paper VI — PHARMACOLOGY — II

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
 forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(1) Describe the various drugs used in the treatment of Tuberculosis.

(a) What do you understand by DOTS?

(b) How do you manage a patient of MDR tuberculosis? (20)

(2) Classify corticosteroids according to their duration of action.

(a) Describe in detail the mechanism of action and therapeutic uses of corticosteroids.

(b) Adverse effects and contraindication of corticosteroids.

(c) Mention the names of two glucocorticoids antagonist. (3 + 5 + 5 + 2 = 15)

(3) Write the chemical classification of antimalarials.

(a) Describe in detail the mechanism of action and adverse effect of chloroquine.

(b) Write about therapeutic uses of chloroquine.

(c) How will you treat a case of chloroquine resistant *P. falciparum* malaria? (3 + 5 + 3 + 4 = 15)

II. Write short notes on : (6 × 5 = 30)

(a) Broad spectrum penicillins.

(b) Toxicity of aminoglycoside antibiotics.

(c) Praziquantel.

(d) Methotrexate - leucovorin rescue.

(e) Tacrolimus.

(f) Injectable contraceptives.

[KQ 545]

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Revised (Non-Semester) Regulations

Paper VI — PHARMACOLOGY — II

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL the questions.

Draw suitable diagrams wherever necessary.

I. Essay questions :

(1) (a) Classify oral hypoglycaemic agents. Describe the mechanism of action, drug interactions and adverse effects of Sulfonylureas. (3 + 7)

(b) Write briefly on Insulin resistance. (5)

(c) Add a note on the various Insulin preparations available. (5)

(2) (a) What are Broad spectrum antibiotics? (2)

(b) Describe the mechanism of action, antimicrobial spectra, adverse effects and uses of Tetra cyclines. (2 + 3 + 4 + 4)

(3) (a) Classify antileprotic drugs. (2)

(b) Write briefly on the mechanism of action, adverse effects and uses of Rifampicin. (2 + 3 + 3)

(c) Add a note on Lepra reaction. (5)

II. Write short notes on : (6 × 5 = 30)

(a) Antiestrogens.

(b) Chelating agents.

(c) Antioxidant vitamins.

(d) Nucleoside reverse transcriptase inhibitors.

(e) Oral contraceptives.

(f) Uses of glucocorticoids.

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Revised (Non-Semester) Regulations

Paper VI — PHARMACOLOGY — II

Time : Three hours Maximum : 100 marks

Theory : Two hours and Theory : 80 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer ALL the questions.

Essays questions :

1. (a) Classify drugs used in amoebiasis.
(b) Explain the mechanism of action, antimicrobial spectra, adverse effects, drug interactions, and therapeutic uses of metronidazole.

(5 + 3 + 3 + 2 + 2 + 5 = 20)

2. (a) List the drugs used in the treatment of bronchial asthma

(b) Explain the mechanism of action of salbutamol.

(c) Add a note on leukotriene antagonists.

(d) Explain why mast cell stabilisers are used in asthma.

(5 + 3 + 3 + 4 = 15)

3. (a) Classify the anti parkinsonian drugs.
(b) Write briefly the mechanism of action of any two of them.

(c) Mention the drugs used in drug induced parkinsonism and explain the rationale behind their use.
(5 + 5 + 3 + 2 = 15)

4. Write Short notes on : (6 × 5 = 30)

- (a) Prokinetic agents.
(b) TNF α -antagonists.
(c) Paracetamol poisoning.
(d) Ovulation inducing agents.
(e) Mycophenolate mofetil.
(f) Topical antifungal agents.

FEBRUARY 2008

[KS 545]

Sub. Code : 4066

SECOND M.B.B.S. DEGREE EXAMINATION.

Revised (Non-Semester) Regulations

Paper VI — PHARMACOLOGY — II

Q.P. Code:524066

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL the questions.

Draw suitable diagrams wherever necessary.

I. Write Essay on : (2 × 15 = 30)

1. Classify drugs used in Tuberculosis. Describe the mechanism of action therapeutic uses and adverse effects of rifampicin. (15)

2. (a) Classify antiviral drugs.

(b) Discuss the mechanism of action, therapeutic uses and unwanted effects of acyclovir. (15)

II. Write short notes on : (10 × 5 = 50)

(a) Drugs used in treatment of vomiting.

(b) Chloroquine.

(c) Anti thyroid drugs.

(d) Drugs used in prophylaxis of bronchial asthma.

(e) Plant alkaloids in cancer chemotherapy

(f) Clonidine.

(g) Drugs used in syphilis

(h) Management of urinary tract infection.

(i) Dapsone

(j) Third generation cephalosporins.