(Deemed University)

## M. Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2006

## PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY, EXPERIMENTAL PHARMACOLOGY, BIOLOGICAL STANDARDIZATION AND BIOSTATISTICS

Monday, July 03, 2006 Time available: 3 Hours Maximum Marks: 100 Answer all the questions.

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appropriate.

- Write your answers that are brief, clear, relevant and legible. ES Illustrate your answers with neatly drawn and correctly labelled diagrams wherever 25
- 1. Discuss how genetics influences kinetics and dynamics of drugs. Explain with suitable
- examples. (20 marks)
- 2. Describe in detail the evaluation of new anti-anxiety agents.
- 3. Discuss on G - Proteins.
- Write briefly on: 4.
- 4A. Therapeutic drug monitoring.
- Radio immunoassay. 4B.
- 4C. Statistical significance.
- 4D. Volume of distribution.

(20 marks)

(20 marks)

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### M. Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2006

PAPER II: SYSTEMIC PHARMACOLOGY: ANS, CNS, CVS, GIT, HEMOPOIETIC, RENAL AND RESPIRATORY SYSTEMS, AUTOCOIDS

	Tuesday, July 04, 2006	
Tim	e available: 3 Hours Maximum Marks: 1	.00
Ø	Answer all the questions.	
Ø	Write your answers that are brief, clear, relevant and legible.	
Ø	Illustrate your answers with neatly drawn and correctly labelled diagrams wherevappropriate.	/er
1.	Diagrammatically depict the anatomy of a nephron and give the functional importance of	its
	divisions with reference to the sites of action of diuretics.	
	(20 mar)	ks)
2.	Classify antipsychotic drugs. Discuss the mechanism of action, uses and adverse effects any one of them.	of
	(20 mar)	ks)
	(20 mai)	icoj
3.	Discuss the therapeutic uses and adverse effects of $\beta$ -blockers.	:
	(20 mar)	ks)

- 4. Write briefly on:
- 4A. Atropine substitutes.
- 4B. Drugs in the management of migraine
- 4C.  $H_2$  blockers.
- 4D. HMG-CoA reductase inhibitors.

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### M. Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION – JULY 2006

# PAPER III: SYSTEMIC PHARMACOLOGY: CHEMOTHERAPY, IMMUNOTHERAPY, ENDOCRINES AND MISCELLANEOUS TOPICS

Wednesday, July 05, 2006

Time available: 3 Hours

Maximum Marks: 100

Answer all the questions.

Write your answers that are brief, clear, relevant and legible.

- Illustrate your answers with neatly drawn and correctly labelled diagrams wherever appropriate.
- 1. Enumerate  $\beta$ -lactam antibiotics. Discuss the mechanism of action, therapeutics uses and toxicities of any one of them.

(20 marks)

2. Discuss the clinical pharmacology of sex hormone antagonists.

No. No. and and and

(20 marks)

 Classify drugs used in cancer chemotherapy based on mechanism / site of action. Add a note on biological response modifiers.

(20 marks)

- 4. Write briefly on:
- 4A Immunostimulants.
- 4B. Anti-obesity drugs.
- 4C. Uses and misuses of anabolic steroids.
- 4D. Antitussives.

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M. Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION – DECEMBER 2006

# PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY, EXPERIMENTAL PHARMACOLOGY, BIOLOGICAL STANDARDIZATION AND BIOSTATISTICS

Monday, December 04, 2006 Time available: 3 Hours

Answer all the questions.
 Write your answers that are brief, clear, relevant and legible.
 Illustrate your answers with neatly drawn and correctly labelled diagrams wherever

1. Discuss how drugs act? Describe how presence of second drug modifies the drug action.

(20 marks)

2. Discuss the methods to evaluate antiinflammatory drugs.

(20 marks)

3. Discuss in brief bio–transformation of drugs with examples.

(20 marks)

- Write briefly on:
- 4A. Plasma-half-life of drugs

appropriate.

- 4B. Ethics of animal experimentation.
- 4C. Confidence limits.

4.

4D. Therapeutic drug monitoring.

 $(10\times4=40 \text{ marks})$ 

Maximum Marks: 100

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#### M. Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION - DECEMBER 2006

## PAPER II: SYSTEMIC PHARMACOLOGY: ANS, CNS, CVS, GIT, HEMOPOIETIC, RENAL AND RESPIRATORY SYSTEMS, AUTOCOIDS

Tuesday, December 05, 2006

Illustrate your answers with neatly drawn and correctly labelled diagrams wherever

Write your answers that are brief, clear, relevant and legible.

Maximum Marks: 100

 $(10 \times 4 = 40 \text{ marks})$ 

Time available: 3 Hours

appropriate.

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Answer all the questions.

4D. Potassium channel openers.

1.	Discuss the pharmacology of morphine. Add a note on opioid receptors.
	(20 marks)
2.	Discuss the pharmacology and limitation of enlapril.
	(20 marks)
3.	Classify the sympathomimetic drugs based on their utility. Discuss the therapeutic uses and
٥.	adverse effects of any one of them.
	(20 marks)
4.	Write briefly on:
4A.	NMDA receptors.
4B.	Desmopressin.
4C.	COX-2 inhibitors.

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#### M. Sc. (FINAL) PHARMACOLOGY DEGREE EXAMINATION - DECEMBER 2006

# PAPER III: SYSTEMIC PHARMACOLOGY: CHEMOTHERAPY, IMMUNOTHERAPY, ENDOCRINES AND MISCELLANEOUS TOPICS

Wednesday, December 06, 2006

Ø	Answer all the questions.
K	Write your answers that are brief, clear, relevant and legible.
Ø	Illustrate your answers with neatly drawn and correctly labelled diagrams wherever
	appropriate.

Classify drugs used in the therapy of malaria. Describe the pharmacological action, adverse
effects and therapeutic uses of the most commonly used antimalarial agent.

(30 marks)

Maximum Marks: 100

- 2A. Current status of fluoro quinolones.
- OD Discuss the thermoutie was a few at alondin
- 2B. Discuss the therapeutic uses of prostaglandins.

(20+20 = 40 marks)

3. Write briefly on:

Write on:

Time available: 3 Hours

3A. Gene therapy

2.

- 3B. Cell cycle specific agents
- 3C. Adverse effects of glucocorticoids.

 $(10\times3 = 30 \text{ marks})$