(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER I: BASIC SCIENCE RELATED TO PHARMACOLOGY & BASIC PRINCIPLES IN PHARMACOLOGY

Monday, July 03, 2006

Time: 3 Hrs.	Max. Marks: 100

1. Discuss various factors governing the selection of a drug and optimization of the dosage regimes.

(30 marks)

- 2. Discuss:
- 2A. Enzymes as targets of drug action.
- 2B. Impact of SAR on clinical use of drugs.

 $(20 \times 2 = 40 \text{ marks})$

- 3. Write short notes on:
- 3A. Bioequivalence.
- 3B. Co transmitters and their role.
- 3C. Drug nomenclature.

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER II: EXPERIMENTAL PHARMACOLOGY, BIOMETRICS AND CLINICAL TRIALS Tuesday, July 04, 2006

Time: 3 Hrs.

Max. Marks: 100

- Answer all the questions
- 1. Discuss the methods involved in screening a compound supposed to have antiulcer activity.

(30 marks)

- 2A. Rat as an experimental animal discuss.
- 2B. Discuss the role of pharmacokinetics in the safety evaluation and approval of a new drug.

 $(20 \times 2 = 40 \text{ marks})$

- 3. Write short notes on:
- 3A. Writing levers in experimental pharmacology.
- 3B. ANOVA.
- 3C. Therapeutic drug monitoring.

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER III: SYSTEMIC PHARMACOLOGY AND THERAPEUTICS

Wednesday, July 05, 2006

Max. Marks: 100

Time: 3 Hrs.

Ø	Answer all the questions.	
1.	Discuss the pharmacotherapy of pain.	
		(30 marks)
2.	Discuss the drugs modifying the fluid state of blood.	
	*	(30 marks)
3.	Write briefly on:	
3A.	Role of enzymes in therapy.	
3B.	Feedback inhibition of hormone release.	
3C.	Insulin sensitizers.	
3D.	Environmental pollutants.	
		$(10 \times 4 = 40 \text{ marks})$

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER IV: APPLIED PHARMACOLOGY, TOXICOLOGY, PHARMACOEPIDEMIOLOGY & RECENT ADVANCES

Thursday, July 06, 2006

Time: 3 Hrs.

Max. Marks: 100

Answer all the questions.

 Discuss the therapeutic importance of various agonists and antagonists of different 5-HT receptors.

(30 marks)

- 2A. Describe the role of growth factors and their analogues in therapeutics.
- 2B. Explain the clinical uses of leukotriene synthesis inhibitors and their receptor antagonists.

 $(20\times2=40 \text{ marks})$

- 3. Critically discuss the importance of following drugs in clinical medicine:
- 3A. Cytoprotective drugs used in peptic ulcer.
- 3B. Drugs for impotence.
- 3C. Topical antifungal drugs.

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – JULY 2006

SUBJECT: PAPER IV: APPLIED PHARMACOLOGY, TOXICOLOGY, PHARMACOEPIDEMIOLOGY & RECENT ADVANCES

Thursday, July 06, 2006

Time: 3 Hrs. Max. Marks: 100

Answer all the questions.

 Discuss the therapeutic importance of various agonists and antagonists of different 5-HT receptors.

(30 marks)

- 2A. Describe the role of growth factors and their analogues in therapeutics.
- 2B. Explain the clinical uses of leukotriene synthesis inhibitors and their receptor antagonists.

 $(20 \times 2 = 40 \text{ marks})$

- 3. Critically discuss the importance of following drugs in clinical medicine:
- 3A. Cytoprotective drugs used in peptic ulcer.
- 3B. Drugs for impotence.
- 3C. Topical antifungal drugs.

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION - DECEMBER 2006

SUBJECT: PAPER I: BASIC SCIENCE RELATED TO PHARMACOLOGY & BASIC PRINCIPLES IN PHARMACOLOGY Monday, December 04, 2006

Monday, December 04, 2006
Time: 3 Hrs.

Max. Marks: 100

Answer all the questions

1. Discuss the physiology of urine formation and its modification by drugs.

(30 marks)

- 2A. Discuss the pharmacological role of presynaptic receptors.
- 2B. Discuss the kinetics of inhalational route of drug administration.

(20+20 = 40 marks)

- 3. Write briefly on:
- 3A. G-proteins.
- 3B. Drugs and subarachnoid space.
- 3C. MAO inhibitors.

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION - DECEMBER 2006

SUBJECT: PAPER II: EXPERIMENTAL PHARMACOLOGY, BIOMETRICS AND CLINICAL TRIALS

Tuesday, December 05, 2006

Time: 3 Hrs.

Max. Marks: 100

Answer all the questions

1. Discuss the methods used in the preclinical evaluation of antidepressants.

- 2. Write short essays on:
- 2A. Modified Declaration of Helsinki.
- 2B. Transgenic animals in experimental pharmacology.

3. Write briefly on:

- or with one of the or
- 3A. Sampling.
- 3B. ELISA.
- 3C. Postmarketing surveillance.

 $(10 \times 3 = 30 \text{ marks})$

 $(20 \times 2 = 40 \text{ marks})$

(30 marks)

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION - DECEMBER 2006

SUBJECT: PAPER III: SYSTEMIC PHARMACOLOGY AND THERAPEUTICS

Wednesday, December 06, 2006

Time: 3 Hrs. Max. Marks: 100

Answer all the questions.

 Describe the pathophysiology of cardiac arrhythmias and explain how clinically useful drugs modify it.

(30 marks)

- 2A. Explain the mechanism of action and discuss the therapeutic status of antidepresants.
- 2B. Discuss anticholinesterases as therapeutic agents.

 $(20 \times 2 = 40 \text{ marks})$

- 3. Write briefly on:
- 3A. Proton pump inhibitors.
- 3B. SERMS.
- 3C. Leucotriene antagonists.

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – DECEMBER 2006

SUBJECT: PAPER IV: APPLIED PHARMACOLOGY, TOXICOLOGY, PHARMACOEPIDEMIOLOGY & RECENT ADVANCES

Thursday Dagambar 07 2006

	Thursday, December 07, 2000	
Time: 3 Hrs.		Max. Marks: 100

Answer all the questions. 25

- 1. What are the recent advances in the treatment of non-insulin dependent diabetes mellitus? (30 marks)
- 2A. Discuss newer antiepileptic drugs.
- Discuss natural products as cancer chemotherapeutic agents.
- 3. Write briefly on:
- Drugs affecting leukotriene pathway. 3A.
- 3B. Non-nucleoside reverse transcriptase inhibition.
- Ethical issues in gene therapy.

 $(10 \times 3 = 30 \text{ marks})$

(20+20 = 40 marks)

