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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – DECEMBER 2005

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

Monday, December 05, 2005

Time: 3 Hrs.

Max. Marks: 100

☞ Answer all the questions

1. Discuss the physiopharmacology of dopaminergic neurotransmission.

(30 marks)

2. Discuss:

2A. SAR of Sympathomimetic amines.

2B. Drug use in extremes of age.

(20×2 = 40 marks)

3. Write short notes on:

3A. Kinetics of elimination.

3B. Bioavailability.

3C. Drug targeting.

(10×3 = 30 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: PAPER II: EXPERIMENTAL PHARMACOLOGY, BIOMETRICS AND CLINICAL TRIALS
Tuesday, December 06, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions

1. Discuss the choice of animal species for experimental research.
(30 marks)
2. Describe the methods to screen Antipsychotic activity of a given compound.
(20 marks)
3. Discuss the principles of bioassay of drug.
(20 marks)
4. Write briefly on:
 - 4A. Placebo.
 - 4B. Post marketing surveillance.
 - 4C. Student's t-test.

(10×3 = 30 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – DECEMBER 2005

SUBJECT: PAPER III: SYSTEMIC PHARMACOLOGY AND THERAPEUTICS

Wednesday, December 07, 2005

Time: 3 Hrs.

Max. Marks: 100

☞ Answer all the questions.

1. Discuss the recent advances in the management of diabetes mellitus.

(30 marks)

2A. Explain the physiology of gastric acid secretion and pharmacotherapy of acid peptic disease.

2B. Discuss the role of vasodilators in clinical practice.

(20×2 = 40 marks)

3. Write short notes on:

3A. GnRH analogues.

3B. Antiplatelet agents.

3C. Guidelines for drug therapy of AIDS.

(10×3 = 30 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

MD (PHARMACOLOGY) DEGREE EXAMINATION – DECEMBER 2005

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

Thursday, December 08, 2005

Time: 3 Hrs.

Max. Marks: 100

✍ Answer all the questions.

1. Discuss the general principles and pharmacology of antiretroviral therapy.

(30 marks)

2A. Discuss the role of statins in therapy of dyslipidemias.

2B. Discuss the role of antibiotics in cancer chemotherapy.

(20×2 = 40 marks)

3. Write notes on:

3A. Symptomatic treatment of spasticity.

3B. Treatment of osteoporosis.

3C. Inhibitors of leukotrienes.

(10×3 = 30 marks)



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