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MANIPAL UNIVERSITY

MD (PHARMACOLOGY) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER I: GENERAL PHARMACOLOGY, CLINICAL PHARMACOLOGY, BIOSTATISTICS AND SCREENING

Wednesday, April 01, 2009

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Beneficial and harmful effects of drug combinations - substantiate with suitable examples.

(20 marks)

CONTRA ...

2. Influence of pharmacogenetics on therapeutic outcome of drugs - discuss with examples.

(20 markš)

- Write briefly on:
- 3A. Transgenic animals.
- 3B. Effect of change in kinetics on drug dose, dosing schedule.
- 3C. Randomization techniques.
- 3D. Receptor supersensitivity and its clinical relevance.
- 3E. Neutraceuticals.
- Hepatotoxic drugs.

 $(10\times6 = 60 \text{ marks})$



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HEALTH SCIENCES LIBRAIN

MANIPAL UNIVERSITY

MD (PHARMACOLOGY) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER II: AUTONOMIC NERVOUS SYSTEM, CARDIOVASCULAR SYSTEM, DIURETICS, RESPIRATORY SYSTEM

Thursday, April 02, 2009

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- answer ALL the questions.
- Write your answers that are brief, clear, relevant and legible.
- Æ Illustrate your answers with neatly drawn and correctly labeled diagrams wherever appropriate.

1. Essay questions:

- Discuss the pharmacodynamics and limitations of drugs used in therapy of myocardial ischaemia.
- 1B. Discuss the mechanism of action of drugs used in prophylaxis and treatment of organophosphate poisoning.

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

2. Write briefly on:

- 2A. Non-cardiovascular uses of sympathomimetic drugs.
- 2B. Inhibitors of Renal Epithelial Na + Channels.
- Positive inotropic agents.
- 2D. Inhibitors of Renin Angiotensin System.
- 2E. Non nicotinic therapies for smoking cessation.
- 2F. Peripheral skeletal muscle relaxants.

 $(10 \times 6 = 60 \text{ marks})$

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MD (PHARMACOLOGY) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER III: CENTRAL NERVOUS SYSTEM, GASTRO INTESTINAL TRACT, BLOOD, AUTACOIDS, MISCELLANEOUS.

Friday, April 03, 2009

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

1. Essay questions:

- 1A. Discuss the drug therapy of parkinsonism.
- 1B. Discuss the role of cytokines in health and disease. Describe the drugs affecting the same.

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

- 2. Write briefly on:
- 2A. Gabapentin.
- 2B. Drug treatment of obesity.
- 2C. Proton pump inhibitors.
- 2D. Low molecular weight heparins.
- 2E. Ondansetron.
- 2F. Opioid antagonists

 $(10 \times 6 = 60 \text{ marks})$

Reg. No.		

MANIPAL UNIVERSITY

MD (PHARMACOLOGY) DEGREE EXAMINATION – APRIL 2009

SUBJECT: PAPER IV: CHEMOTHERAPY, HORMONES, VACCINES, VITAMINS

Saturday, April 04, 2009

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- 1. Essay questions:
- 1A. Discuss the recent advances in the treatment of osteoporosis.
- 1B. Discuss the monoclonal antibodies as therapeutic agents.

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

- 2. Write briefly on:
- 2A. GnRH analogues.
- 2B. Insulin secretogogues.
- 2C. Single daily dosage of aminoglycosides.
- 2D. Management of cerebral malaria.
- 2E. Caspofungin.
- 2F. Selective estrogen receptor modulators.

 $(10 \times 6 = 60 \text{ marks})$