

MANIPAL UNIVERSITY

M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: APPLIED PHARMACOTHERAPEUTICS – I (PPR 601)

(SPECIALIZATION: PHARMACY PRACTICE)

Friday, May 24, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- 1A. Classify hypertension based on JNC VII guidelines. Explain the management of hypertensive emergency and hypertension in pregnancy.
- 1B. Explain the management of Acute Myocardial infarction. ((2+8)+10 = 20 marks)
- 2A. Explain the management of various seizure disorders.
- 2B. Discuss the management of Parkinsons disease. (10+10 = 20 marks)
- 3A. Explain the role of various bronchodilators in the management of asthma.
- 3B. Explain the management of hyperlipidemia.
- 3C. Explain the role of atypical antipsychotics in the management of schizophrenia (6+8+6 = 20 marks)
- 4A. Enumerate various cellular components of immunity and explain the role of each type of cells.
- 4B. Write briefly on serotonin syndrome.
- 4C. Explain the management of migraine. (10+5+5 = 20 marks)
- 5A. Explain the clinical manifestations of chronic renal failure.
- 5B. Explain pathophysiology, clinical presentation and management of Systemic sclerosis. (10+10 = 20 marks)



MANIPAL UNIVERSITY**M. PHARM PART-I DEGREE EXAMINATION – MAY/JUNE 2013****SUBJECT: APPLIED PHARMACOTHERAPEUTICS – II (PPR 602)****(SPECIALIZATION: PHARMACY PRACTICE)**

Monday, May 27, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- 1A. Describe the role of sulfonylureas in the management of diabetes mellitus.
1B. Explain the management of diabetic ketoacidosis.
1C. Explain the management of thyroid storm.
(8+7+5 = 20 marks)
- 2A. Explain the pathogenesis and clinical symptoms of pulmonary tuberculosis.
2B. Explain the management of multi drug resistant tuberculosis.
(10+10 = 20 marks)
- 3A. Enumerate the clinical symptoms of pneumonia and describe its management.
3B. Explain the clinical symptoms and management of uncomplicated urinary tract infections.
(10+10 = 20 marks)
- 4A. Differentiate osteoarthritis and rheumatoid arthritis and explain the role of steroids and NSAIDs in the management of rheumatoid arthritis.
4B. Explain the management of open angle glaucoma.
4C. Explain the mechanism of any two drugs that cause liver disorder.
(10+5+5 = 20 marks)
- 5A. Describe the etiopathogenesis and management of bacterial endocarditis.
5B. Enumerate the opportunistic infections of AIDS and explain the management of any two.
(10+10 = 20 marks)



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M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: CLINICAL AND HOSPITAL PHARMACY (PPR 603)

(SPECIALIZATION: PHARMACY PRACTICE)

Wednesday, May 29, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- 1A. Enumerate various clinical pharmacy services and explain the goals and procedures for any two.
- 1B. Discuss the selection of location and Schedule N requirements to start a community pharmacy.
- (10+10 = 20 marks)
- 2A. Enumerate four types of costs. Explain cost benefit analysis in the pharmaco-economic evaluation with a suitable example.
- 2B. Classify pulmonary function tests and explain the significance of any three tests.
- 2C. Write briefly on OTC drugs.
- (6+10+4 = 20 marks)
- 3A. Define hospital formulary. Describe general guiding principles for developing a hospital formulary system.
- 3B. Explain the steps involved in patient medication counseling and the skills needed for counseling patients.
- (10+10 = 20 marks)
- 4A. Mention the need for drug information service and explain the modified systematic approach for providing drug information service.
- 4B. Discuss the various methods of quality assurance program for Clinical Pharmacy Services.
- (12+8 = 20 marks)
5. **Write briefly on:**
- 5A. Types of medication error
- 5B. Case cohort study
- 5C. Medication adherence
- 5D. Legal requirements for prescription
- (5×4 = 20 marks)



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M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: DRUG DISCOVERY DEVELOPMENT AND CLINICAL RESEARCH (PPR 604)

(SPECIALIZATION: PHARMACY PRACTICE)

Friday, May 31, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

1A. Explain the process of drug discovery and preclinical drug development.

1B. Define clinical trials and explain the different phases of clinical trial.

(10+10 = 20 marks)

2A. Describe the following components of a clinical trial protocol:

i) Trial objective and purpose

ii) Trial design

iii) Assessment of efficacy

iv) Financing and insurance

v) Publication policy

2B. Explain the steps involved in critical evaluation of a biomedical literature.

(10+10 = 20 marks)

3A. Mention the essential documents required after the conduct of a clinical trial with respect to purpose and their location in the files of investigator or a sponsor.

3B. Describe the provision for data security in clinical trials and write briefly on system dependability.

3C. Draw the flowchart for ANDA process.

(8+8+4 = 20 marks)

4A. Explain the objectives and principles of ICH-GCP guidelines.

4B. Describe the role of institutional ethical committee.

4C. Discuss the measures to ensure drug safety in clinical trial.

(8+6+6 = 20 marks)

5A. Explain the roles and responsibilities of investigator with respect to:

i) Randomization process and unblinding.

ii) Informed consent of trial subjects.

5B. Explain the qualification and responsibilities of a monitor in clinical trials.

(10+10 = 20 marks)



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M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: CLINICAL PHARMACOKINETICS, TOXICOLOGY AND BIostatISTICS (PPR 605)

(SPECIALIZATION: PHARMACY PRACTICE)

Monday, June 03, 2013

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

1A. Define half life of a drug. Explain the determination and clinical significance of plasma half life.

1B. Explain the various pharmacokinetic models. Explain one compartment open model for intravenous bolus injection.

(10+10 = 20 marks)

2A. Define and explain the clinical significance of apparent volume of distribution.

2B. Explain nonlinear kinetics with suitable examples.

(10+10 = 20 marks)

3A. Explain the clinical signs and symptoms of organophosphorus poisoning and explain its management.

3B. Explain the clinical signs and symptoms of alcohol withdrawal and explain the detoxification procedure.

(10+10 = 20 marks)

4A. Enumerate the tests of significance. Explain any two parametric tests of significance.

4B. Explain the various tests of central tendency with suitable examples for each.

(10+10 = 20 marks)

5A. Explain the TDM of theophylline and explain the significance of TDM in clinical practice.

5B. Explain the general study design for bioavailability studies.

(10+10 = 20 marks)

