

## MANIPAL UNIVERSITY

## M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2012

## SUBJECT: APPLIED PHARMACOTHERAPEUTICS – I (PPR 601)

(SPECIALIZATION: PHARMACY PRACTICE)

Thursday, May 24, 2012

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ **Answer all questions.**

1A. Enumerate the various complications of chronic renal failure and explain the management of any four.

1B. Explain the management of systemic lupus erythematosus.

(14+6 = 20 marks)

2A. Explain the clinical manifestations and management of iron deficiency anemia.

2B. Explain any one drug induced hematological disorders.

2C. Explain the role of anticoagulants for the prophylaxis of deep vein thrombosis.

(10+5+5 = 20 marks)

3A. Discuss the management of congestive cardiac failure.

3B. Explain the management of hypertension in diabetes and pregnancy.

3C. Explain the role of HMG Co-A reductase inhibitors in the management of hyperlipidemia

(10+5+5 = 20 marks)

4A. Enumerate the various risk factors for chronic obstructive pulmonary disease.

4B. Define chronic bronchitis and emphysema and explain the management of chronic bronchitis.

4C. Discuss the management of acute severe asthma.

(4+8+8 = 20 marks)

5A. Mention the signs, symptoms and discuss the management of Alzheimer's disease.

5B. Classify epilepsy and explain the management of tonic-clonic seizures.

(10+10 = 20 marks)



## MANIPAL UNIVERSITY

## M. PHARM PART-I DEGREE EXAMINATION – MAY/JUNE 2012

## SUBJECT: APPLIED PHARMACOTHERAPEUTICS – II (PPR 602)

(SPECIALIZATION: PHARMACY PRACTICE)

Saturday, May 26, 2012

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

1A. Describe the management of the complications of diabetes mellitus.

1B. Describe the management of any two post menopausal disorders.

(10+10 = 20 marks)

2A. Enumerate the various complications of alcoholic liver disease and explain the management of any three.

2B. Explain the management of uncomplicated and complicated malaria.

(10+10 = 20 marks)

3A. Explain the rational drug therapy in pregnancy and lactation.

3B. Explain the management of osteoarthritis.

3C. Explain the management of hyperthyroidism.

(4+8+8 = 20 marks)

4A. Explain the management of complicated urinary tract infection.

4B. Describe the step-up and step-down approach in the management of rheumatoid arthritis.

4C. Explain the management of ulcerative colitis.

(8+6+6 = 20 marks)

5A. Explain the management of portal hypertension, hepatic encephalopathy and variceal bleeding.

5B. Explain the management of multidrug resistant pulmonary tuberculosis.

5C. Explain the pharmacotherapy of any two upper respiratory tract infections.

(8+6+6 = 20 marks)



**MANIPAL UNIVERSITY****M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2012****SUBJECT: CLINICAL AND HOSPITAL PHARMACY (PPR 603)****(SPECIALIZATION: PHARMACY PRACTICE)**

Tuesday, May 29, 2012

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- 1A. Enumerate various clinical pharmacy services and explain goals and procedures for any two.
- 1B. Describe the different steps involved in DUE program with the help of a schematic representation
- (10+10 = 20 marks)
- 2A. Enumerate five important cardiac enzymes with its normal ranges and explain the time course of cardiac enzyme release following acute myocardial infarction.
- 2B. Explain the different tests to detect hepatocellular damage and cholestatic diseases.
- (10+10 = 20 marks)
- 3A. Define purchase and inventory. Enumerate various methods of inventory control and explain any two.
- 3B. Explain five types of medication errors with example.
- 3C. Classify hospital based on clinical and ownership basis.
- ((2+2+6)+5+5 = 20 marks)
- 4A. Discuss the schedule N requirement to start community pharmacy.
- 4B. Explain unit dose drug distribution system with its advantages.
- 4C. Explain the role of Pharmacy Therapeutic Committee in adverse drug reaction Monitoring.
- (8+8+4 = 20 marks)
- 5. Write briefly on:**
- 5A. Rational Drug use.
- 5B. Drug basket system.
- 5C. O T C Drugs.
- 5D. Cost benefit analysis.
- (5×4 = 20 marks)



# MANIPAL UNIVERSITY

## M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2012

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

(SPECIALIZATION: PHARMACY PRACTICE)

Thursday, May 31, 2012

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- 1A. Define clinical trials. Explain the different phases of clinical trials.
- 1B. Describe the process of preclinical drug development with illustration. (10+10 = 20 marks)
- 2A. Explain the roles and responsibilities of investigator with respect to:
- Investigational product
  - Medical care of trial subjects
- 2B. Describe the following components of a clinical trial protocol:
- Study design
  - Inclusion, exclusion criteria.
  - Withdrawal of subjects. (10+10 = 20 marks)
- 3A. Explain the steps involved in critical evaluation of clinical trial literatures.
- 3B. Discuss the composition and responsibilities of institutional review board. (10+10 = 20 marks)
- 4A. Describe the process of ANDA submission with a flowchart.
- 4B. Explain the principles of computerized data management in clinical trials and the process of data entry. (10+10 = 20 marks)
- 5. Write briefly on:**
- 5A. High throughput screening.
- 5B. Informed consent form.
- 5C. Role of Monitor in clinical trials.
- 5D. Adverse event reporting in clinical trials. (5×4 = 20 marks)



**MANIPAL UNIVERSITY****M. PHARM. PART-I DEGREE EXAMINATION – MAY/JUNE 2012****SUBJECT: CLINICAL PHARMACOKINETICS, TOXICOLOGY AND BIOSTATISTICS (PPR 605)****(SPECIALIZATION: PHARMACY PRACTICE)**

Saturday, June 02, 2012

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

**✍ Answer all questions.**

- 1A. Explain any five mechanisms of absorption of drugs.
- 1B. Explain the bitransformation of drugs and genetic factors affecting drug metabolism. (10+10 = 20 marks)
- 2A. Define clearance. Explain hepatic clearance and factors affecting it.
- 2B. Explain plasma concentration-time profile with illustration and describe the various pharmacokinetic and pharmacodynamic parameters. (10+10 = 20 marks)
- 3A. Define pharmacokinetic models and enumerate its applications.
- 3B. Explain open compartment models with illustrations.
- 3C. Define pharmaceutical and therapeutic equivalence and explain the clinical significance. (6+6+8 = 20 marks)
- 4A. Explain the management of cobra and viper envenomation.
- 4B. Explain the clinical symptoms and management of paracetamol and benzodiazepine poisoning. (10+10 = 20 marks)
- 5A. Explain the various tests of central tendency.
- 5B. Enumerate and explain the tests of variance.
- 5C. Explain the following:
- i) Linear regression.
  - ii) Chi-square test.
- (5+5+10 = 20 marks)

