

MANIPAL UNIVERSITY**FIRST YEAR M. PHARM. DEGREE EXAMINATION – MAY 2015**

SUBJECT: APPLIED PHARMACOTHERAPEUTICS – I (PPR 601T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)

Monday, May 18, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions

1. Classify epilepsy and describe general principles of treatment in epilepsy (10 marks)
2. Define Hyperlipidemia. Explain the pharmacotherapy of the same. (10 marks)
3. Explain the role of typical and atypical antipsychotics in the management of schizophrenia. (10 marks)
4. Differentiate between various types of angina and discuss the management of acute myocardial infarction. (10 marks)
5. What is acute kidney injury (AKI) and identify patients at high risk for the development of different type of AKI. Write treatment algorithm for the management of AKI. (10 marks)
6. Outline the pharmacotherapy of Ischemic stroke under acute treatment and secondary prevention (10 marks)
7. Discuss the prophylactic management of migraine. (10 marks)
8. Explain management of motor symptoms and non-motor symptoms in Parkinson's disease. (10 marks)
9. **Write short notes on**
 - 9A. DASH Therapy
 - 9B. Aplastic anemia management(5 marks × 2 = 10 marks)
10. **Write briefly on the following**
 - 10A. Anticoagulants for the prophylaxis of deep vein thrombosis
 - 10B. Systemic lupus erythematosus(5 marks × 2 = 10 marks)



MANIPAL UNIVERSITY

FIRST YEAR M. PHARM DEGREE EXAMINATION – MAY 2015

SUBJECT: APPLIED PHARMACOTHERAPEUTICS – II (PPR 602T)
(SPECIALIZATION: PHARMACY PRACTICE)

(2014 REGULATION)

Wednesday, May 20, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

Answer ALL questions.

1. Describe in detail the management of rheumatoid arthritis (10 marks)
2. Discuss various types of insulin preparations with respect to the duration of action, source and dosing regimens. (10 marks)
3. Discuss the general principles of antiretroviral therapy and mention three HAART regimens with their dose (10 marks)
4. Discuss the management of inflammatory bowel disease with the help of an algorithm (10 marks)
5. Explain the management of portal hypertension, hepatic encephalopathy and variceal bleeding (10 marks)
6. Explain the management of multi drug resistant pulmonary tuberculosis. (10 marks)
7. Enumerate the various types of drug induced liver disorders and explain the mechanism of any three (10 marks)
8. Explain causative organisms, Clinical features and management of Hospital acquired pneumonia. (10 marks)
9. **Write short notes on**
 - 9A. Oral contraceptives.
 - 9B. Bacterial Meningitis(5 marks × 2 = 10 marks)
10. **Write briefly on the following**
 - 10A. Prescribing guidelines for geriatrics.
 - 10B. Management of gastro enteritis(5 marks × 2 = 10 marks)



MANIPAL UNIVERSITY

FIRST YEAR M. PHARM. DEGREE EXAMINATION – MAY 2015

SUBJECT: CLINICAL AND HOSPITAL PHARMACY (PPR 603T)

(SPECIALIZATION: PHARMACY PRACTICE)

(2014 REGULATION)

Friday, May 22, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

Answer ALL questions.

1. Explain the goals and procedure of clinical review and therapeutic drug monitoring. (10 marks)
2. Define patient counseling. Explain the process and barriers for patient counseling. (10 marks)
3. Define Hospital. Explain the organization of large hospital. (10 marks)
4. Define the term Pharmacoeconomics. Explain cost-effective analysis by citing examples. (10 marks)
5. Discuss the legal requirement to start a community pharmacy. (10 marks)
6. Enumerate various methods of dispensing during off hours. Explain any three methods. (10 marks)
7. Explain the specific tests done on CSF and sputum samples with its clinical significance. (10 marks)
8. Define Pharmacy Therapeutic Committee. Explain its organization and purposes. (10 marks)
9. **Write short notes on:**
 - 9A. Pharmacy communication
 - 9B. Drug information resources(5 marks × 2 = 10 marks)
10. **Write briefly on the following:**
 - 10A. Medication history interview
 - 10B. Cohort study(5 marks × 2 = 10 marks)



MANIPAL UNIVERSITY**FIRST YEAR M. PHARM. DEGREE EXAMINATION – MAY 2015**

SUBJECT: DRUG DISCOVERY DEVELOPMENT AND CLINICAL RESEARCH (PPR 604T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)

Monday, May 25, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

1. With the help of appropriate diagrams explain various approaches to Drug Discovery process. (10 marks)
2. Explain New Drug application (NDA) process. Draw a typical algorithm for NDA submission. (10 marks)
3. Explain genotoxicity studies as per Schedule Y. (10 marks)
4. Explain various studies in special populations as per Schedule Y. (10 marks)
5. Explain various responsibilities of Sponsor according to GCP guidelines. (10 marks)
6. Define clinical trials and explain phase II and Phase III of clinical trials in details. (10 marks)
7. Discuss the components of a clinical trial protocol. (10 marks)
8. Explain various challenges faced during the conduct of a Clinical Trial according to ICH – Good Clinical Practice guidelines. (10 marks)
9. **Write short notes on:**
 - 9A. Pharmacovigilance program of India
 - 9B. Quality assurance and quality control in clinical data management(5 marks × 2 = 10 marks)
10. **Write briefly on the following:**
 - 10A. Regulatory environment of Europe overseeing Clinical Trials
 - 10B. Regulatory environment of US overseeing Clinical Trials(5 marks × 2 = 10 marks)



MANIPAL UNIVERSITY

FIRST YEAR M. PHARM. DEGREE EXAMINATION – MAY 2015

SUBJECT: CLINICAL PHARMACOKINETICS, TOXICOLOGY AND BIostatISTICS (PPR 605T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)

Wednesday, May 27, 2015

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

1. Enlist the assumptions of parametric tests. Write the general method of calculation of unpaired t-test and One-way ANOVA. (10 marks)
2. Classify data types. Describe the various methods of estimation of central tendency and variation (spread). (10 marks)
3. Define half-life. Explain its significance and different factors effecting half-life of a drug. (10 marks)
4. Explain one compartment model for IV bolus dose. (10 marks)
5. Define absolute and relative bioavailability. Explain role of various study design used in estimation of bioavailability of a drug. (10 marks)
6. Enlist different clinical symptoms of paracetamol poisoning. Explain the role of N-acetylcysteine in the management of paracetamol poisoning. (10 marks)
7. Explain the role of severity scales in poisoning management. (10 marks)
8. Explain clinical symptoms and management of cocaine abuse. (10 marks)
9. **Write short notes on:**
 - 9A. Two-way ANOVA
 - 9B. Alkali poisoning(5 marks × 2 = 10 marks)
10. **Write briefly on the following:**
 - 10A. Indication of therapeutic drug monitoring
 - 10B. Gastric lavage(5 marks × 2 = 10 marks)

