MANIPAL UNIVERSITY
FIRST YEAR M. PHARM. DEGREE EXAMINATION – MAY 2016
SUBJECT: APPLIED PHARMACOTHERAPEUTICS – I (PPR 601T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)

Wednesday, May 18, 2016

Time: 10:00 – 13:00 Hrs.   Max. Marks: 100

✍ **Answer ALL questions.**

1. Enumerate the NYHA classification of heart failure and explain the pathophysiology of heart failure.

(10 marks)

2. Explain the management of hypertension and anemia in chronic renal failure.

(10 marks)

3. Discuss the various vasoactive agents and antibiotics used in the management of shock.

(10 marks)

4. Discuss the management of bipolar disorder.

(10 marks)

5. Enumerate the clinical manifestations and management of iron deficiency anemia.

(10 marks)

6.   Explain the management of hypertension in:
6A. Pregnancy
6B. Hypertensive Urgency and Emergency

(10 marks)

7.   Discuss the management of septic shock

(10 marks)

8.   Explain the management of type 2 diabetes mellitus

(10 marks)

9.   **Write short notes on:**

9A. Trigger factors for asthma
9B. Serotonin syndrome

(5 marks × 2 = 10 marks)

10. **Write briefly on the following:**

10A. Effect of HMG Co-A reductase inhibitors on lipid metabolism
10B. Systemic sclerosis

(5 marks × 2 = 10 marks)

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FIRST YEAR M. PHARM DEGREE EXAMINATION – MAY 2016

SUBJECT: APPLIED PHARMACOTHERAPEUTICS – II (PPR 602T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)

Friday, May 20, 2016

Time: 10:00 – 13:00 Hrs.   Max. Marks: 100

✍ **Answer ALL questions.**

1. Enumerate various complications of diabetes mellitus and management of type I diabetes mellitus.
(10 marks)

2A. Explain the management of HIV infection with various combinations of highly-active antiretroviral therapy.

2B. Explain the significance of CD4 T-cell counts in opportunistic infection.
(10 marks)

3. Explain the management of various complications of alcoholic liver disease.
(10 marks)

4. Enumerate the etiology of peptic ulcer disease and describe various management regimens of H. pylori infections.
(10 marks)

5. Explain TNM staging of cancer and explain cell cycle.
(10 marks)

6. Explain the clinical presentations and management of uncomplicated lower urinary tract infection in adults.
(10 marks)

7. Discuss clinical manifestations and treatment of Thyroid Storm and myxedemacoma.
(10 marks)

8. Explain the pharmacotherapy of bacterial meningitis.
(10 marks)

9. **Write short notes on:**
9A. Disease Modifying Anti-Rheumatoid Drugs
9B. Treatment algorithm of osteoarthritis
(5 marks × 2 = 10 marks)

10. **Write briefly on the following:**
10A. Management of primary open angle glaucoma
10B. Management of infective endocarditis
(5 marks × 2 = 10 marks)

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FIRST YEAR M. PHARM. DEGREE EXAMINATION – MAY 2016

SUBJECT: CLINICAL AND HOSPITAL PHARMACY (PPR 603T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)

Monday, May 23, 2016

Time: 10:00 – 13:00 Hrs.   Max. Marks: 100

✍ **Answer ALL questions.**

1. Explain the individual prescription order system and floor stock drug distribution system with its advantages and disadvantages.

    (10 marks)

2. Explain the role of pharmacist and purchasing agent in drug procurement. Explain the procedure for procuring drugs in a large hospital.

    (10 marks)

3. Explain pre-renal, intra renal and post renal causes of acute renal failure and explain different renal function tests with its normal values and clinical significance.

    (10 marks)

4. Define pharmcoepidemiology. Explain in detail case control and cohort study.

    (10 marks)

5. Discuss the schedule N requirement to start a community pharmacy.

    (10 marks)

6. Discuss the factors contributing for patient medication non adherence and how to overcome the same.

    (10 marks)

7. Enumerate various categories of staff working in the hospital pharmacy. Explain the function of each category.

    (10 marks)

8. Discuss the goals and procedures for clinical review and provision of drug information.

    (10 marks)

9. **Write short notes on:**
9A. Ward round participation
9B. Hospital formulary system

    (5 marks × 2 = 10 marks)

10. **Write briefly on the following:**
10A. Emergency box and night drug cabinet
10B. ABC analysis

    (5 marks × 2 = 10 marks)

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FIRST YEAR M. PHARM. DEGREE EXAMINATION – MAY 2016

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

Wednesday, May 25, 2016

Time: 10:00 – 13:00 Hrs.   Max. Marks: 100

✍ **Answer ALL questions.**

1. Explain the various stages of a typical Drug Discovery Process with help of a developmental cycle diagram.

(10 marks)

2. Explain regulatory process for Investigational New Drug application to the FDA.

(10 marks)

3. Explain Local toxicity studies as per Schedule Y.

(10 marks)

4. Discuss in detail human pharmacology and therapeutic confirmatory trials.

(10 marks)

5. Explain composition, functions and operations of Institutional Review Board/ Independent Ethics Committee as per ICH-GCP guidelines.

(10 marks)

6. Discuss contents of Investigator's Brochure.

(10 marks)

7. Discuss various components of Biomedical Literature evaluation.

(10 marks)

8. Explain the importance and concepts of clinical data management during the clinical trial process.

(10 marks)

9. **Write short notes:**

9A. Safety monitoring during Clinical Trials
9B. Regulatory authority's role and responsibilities towards Clinical Trials

(5 marks × 2 = 10 marks)

10. **Write briefly on the following:**

10A. Informed Consent process during Clinical Trials
10B. Case report forms

(5 marks × 2 = 10 marks)

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✍ **Answer ALL questions.**

1. Based on what parameters sample size is calculated. With suitable examples explain the calculation of sample size for estimation men and comparison of mean.

(10 marks)

2. Give examples of parametric and non-parametric tests. Write the general steps involved in the calculation Paired t-test and Chi square test.

(10 marks)

3. Explain the role of passive and active diffusion in the process of absorption.

(10 marks)

4. Explain plasma-drug profile with the help of a neat diagram.

(10 marks)

5. Explain management of paracetamol poisoning.

(10 marks)

6. Explain management of nicotine abuse.

(10 marks)

7. Enlist different indication for therapeutic drug monitoring (TDM) and explain the TDM of Lithium.

(10 marks)

8. Define compartment model. Explain one compartment model.

(10 marks)

9. **Write short notes on:**

9A. Simple linear regression
9B. Steady state

(5 marks × 2 = 10 marks)

10. **Write briefly on the following:**

10A. Ethanol poisoning
10B. Intermidiate syndrome

(5 marks × 2 = 10 marks)