

Exam Date & Time: 25-Nov-2019 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

**Clinical Pharmacy Practice [PPR-MPP101T]**

**Marks: 75**

**Duration: 180 mins.**

### SECTION - A

**Answer all the questions.**

Answer the following (10 marks x 5 = 50 marks)

- 1) Describe the goals and procedure for drug utilization evaluation (10)
- 2) Describe various haematological tests and their clinical significance with normal values (10)
- 3) Explain in detail thyroid function tests to distinguish thyroid disorders and explain the flowchart of hypothalamic-pituitary thyroid axis (10)
- 4) Define Drug Information and explain the need for medicine information services for answering drug information queries (10)
- 5) Explain steps involved in drug literature evaluation and preparation of verbal and written responses (10)

### SECTION - B

**Answer all the questions.**

Answer the following (5 marks x 5 = 25 marks)

- 6) Explain Pharmacist Workup on Drug Therapy (PWDT) (5)
- 7) Explain the procedure for quality assurance of clinical pharmacy services (5)
- 8) Define pharmacovigilance as per WHO and explain aims and concept of pharmacovigilance program (5)
- 9) Describe the structure and significance of patient's case history (5)
- 10) Explain verbal communication skills required for clinical pharmacist (5)

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Exam Date & Time: 27-Nov-2019 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

### Pharmacotherapeutics I [PPR-MPP102T - S3]

Marks: 75

Duration: 180 mins.

#### SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Classify arrhythmias with the drug of choice for each. Write a brief note on the treatment principles of *Torsade de-pointes*. (10)
- 2) Discuss the clinical presentation and management of acute severe asthma. (10)
- 3) Describe the pathogenesis and management of Crohn's disease. (10)
- 4) Explain the management aplastic anemia and drug induced agranulocytosis. (10)
- 5) Discuss the management of type 2 diabetes mellitus with the help of treatment algorithm. (10)

#### SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Discuss the role of statins for primary and secondary prevention of cardiovascular disease. (5)
- 7) Explain the pharmacotherapy of ischaemic heart disease (IHD). (5)
- 8) Discuss pathophysiology and treatment options for systemic lupus erythematosus (SLE). (5)
- 9) Explain the pathophysiology and pharmacotherapy of eczema. (5)
- 10) Classify conjunctivitis based on etiology and mention any two drugs of choice for each. (5)

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Exam Date & Time: 29-Nov-2019 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

**Hospital and Community Pharmacy [PPR-MPP103T - S2]**

**Marks: 75**

**Duration: 180 mins.**

### SECTION - A

**Answer all the questions.**

Answer the following (10 marks x 5 = 50 marks)

- 1) What is Hospital Pharmacy. Draw an organization chart of Hospital Pharmacy in Large Hospital. And explain the functions of each department. (10)
- 2) Define purchase and inventory. Explain ABC analysis and the Economic order quantity method of inventory control. (10)
- 3) Discuss the Legal requirement to start a community Pharmacy (10)
- 4) What is patient medication adherence? Mention the importance of medication adherence in various conditions. What are the various methods to detect patient medication adherence? (10)
- 5) Explain the role of pharmacists in smoking cessation, child and mother care. (10)

### SECTION - B

**Answer all the questions.**

Answer the following (5 marks x 5 = 25 marks)

- 6) What is the Institutional ethical committee. Explain the procedure for reviewing the study protocol involving human subjects by ethical committee. (5)
- 7) Define medication error. Enumerate various factors contributing to a medication error. And explain the strategies to overcome any one factor. (5)
- 8) Explain the legal requirements of prescription with the help of a neat diagram. (5)
- 9) Explain various verbal communication skills required for effective patient counselling. (5)
- 10) Explain briefly on first aid procedure in various conditions. (5)

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Exam Date & Time: 02-Dec-2019 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

**Clinical Research [PPR-MPP104T]**

**Marks: 75**

**Duration: 180 mins.**

### SECTION - A

**Answer all the questions.**

Answer the following (10 marks x 5 = 50 marks)

- 1) Explain in detail the various steps in the drug discovery development process with the help of a neat algorithm. (10)
- 2) Discuss role and responsibility of different stakeholders towards Informed Consent of Trial Subjects. (10)
- 3) Discuss essential components of a clinical trial agreement. (10)
- 4) Discuss selection process for Monitor and explain its role and responsibility towards clinical trial Monitoring. (10)
- 5) Discuss frauds and misconduct commonly noted during conduct of clinical trials and role of regulatory bodies. (10)

### SECTION - B

**Answer all the questions.**

Answer the following (5 marks x 5 = 25 marks)

- 6) Discuss the constitution and functions of Ethical committee. (5)
- 7) Explain the role of sponsor in clinical trial initiation and auditing. (5)
- 8) Discuss the advantage and disadvantage of electronic data capture during clinical trials. (5)
- 9) Discuss standard operating procedure for clinical trial data management. (5)
- 10) Discuss briefly on how does the sponsor ensures quality of clinical data. (5)

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Exam Date & Time: 28-Dec-2019 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

### Pharmacotherapeutics I [PPR-MPP102T]

Marks: 75

Duration: 180 mins.

#### SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Explain the management of systemic hypertension according to standard treatment guidelines. (10)
- 2) Discuss the pharmacologic therapy of adult chronic asthma. (10)
- 3) Describe the etio-pathogenesis of peptic ulcer and management of *H. pylori* induced peptic ulcer. (10)
- 4) Define anemia. Explain the management of iron deficiency and folic acid deficiency anemia. (10)
- 5) Discuss the management of hyperthyroidism and thyroid storm. (10)

#### SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Discuss the role of bile acid resins and niacin in the management of dyslipidemia. (5)
- 7) Draw a neat algorithm for the treatment of stable angina. (5)
- 8) Discuss the treatment options for osteoarthritis. (5)
- 9) Explain the pharmacotherapy options for psoriasis. (5)
- 10) Define glaucoma and classify it based on symptoms. Enlist the risk factors for development of glaucoma. (5)

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Exam Date & Time: 30-Dec-2019 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

**Hospital and Community Pharmacy [PPR-MPP103T]**

**Marks: 75**

**Duration: 180 mins.**

### SECTION - A

**Answer all the questions.**

Answer the following (10 marks x 5 = 50 marks)

- 1) What is Hospital. Draw an organization chart of Hospital and explain the function of each department. (10)
- 2) Enumerate various drug distribution systems to inpatients. Explain any three methods with its advantages and disadvantages. (10)
- 3) Discuss the code of ethics for the pharmacists in relation to his trade, profession and medical profession. (10)
- 4) Describe the objectives and procedures for patient counselling. (10)
- 5) Define Home medication Review (HMR). Discuss the process of HMR. (10)

### SECTION - B

**Answer all the questions.**

Answer the following (5 marks x 5 = 25 marks)

- 6) Explain the various steps involved in the development of therapeutic guidelines. (5)
- 7) Write briefly on Pharmaceutical waste management. (5)
- 8) Define Over The Counter (OTC) medications. Write drug interactions and patient counselling for any two OTC drugs. (5)
- 9) Explain the quality criteria for Patient information leaflets. (5)
- 10) Define communicable diseases. Write the causative organism, clinical presentations, and prevention of any four communicable diseases. (5)

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