MANIPAL UNIVERSITY

FIRST YEAR M. PHARM. DEGREE EXAMINATION - MAY 2017
SUBJECT: APPLIED PHARMACOTHERAPEUTICS - I (PPR 601T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)
Thursday, May 18, 2017 (10.00 - 13.00 Hrs.)

Duration: 180 mins.

Marks: 100

Answer ALL the questions:

1)	Enumerate the various types of dialysis and explain any two with its clinical significance.	(10)
2)	Discuss the management of arterial thromboembolism.	(10)
3)	Draw the treatment algorithm for the management of schizophrenia.	(10)
4)	Explain the role of corticosteroids in the management of COPD & SLE.	(10)
5)	Discuss the management of Parkinson's disease.	(10)
6)	Define chronic bronchitis and emphysema and explain the management of chronic bronchitis.	(10)
7)	Mention the signs, symptoms and discuss the management of Alzheimer's disease.	(10)
8)	Enumerate various drug induced hematological disorders. Explain the mechanism of any two.	(10)

Write short notes on:

9A)	Role of Statins and niacin in the management of hyperlipidemia.	(5)
9B)	Opioids in the management of pain.	(5)

Write briefly on the following:

10A)	Antibiotics in chronic obstructive pulmonary disease.	(5)
10B)	Neuroleptic malignant syndrome.	(5)

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FIRST YEAR M. PHARM DEGREE EXAMINATION - MAY 2017
SUBJECT: APPLIED PHARMACOTHERAPEUTICS - II (PPR 602T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)
Saturday, May 20, 2017 (10.00 - 13.00 Hrs.)

Marks: 100

Duration: 180 mins.

Answer ALL the questions.

1)	Explain the clinical manifestations and the management of uncomplicated urinary tract infection.	(10)
2)	Explain the general prescribing guidelines for Pediatric patients and Lactating mothers.	(10)
3)	Explain the mechanisms of any four drug induced liver disorders.	(10)
4)	Discuss the pathogenesis of HIV infection and explain the action of antiretroviral on various stages of HIV life cycle.	(10)
5)	Enumerate complications of diabetes mellitus and explain the management of any four.	(10)
6)	Explain the role of DMARDs in the management of rheumatoid arthritis.	(10)
7)	Explain the management of inflammatory bowel disease with the help of an algorithm.	(10)
8)	Explain the log cell kill hypothesis and TNM staging of cancer.	(10)

Write short notes on:

9A)	Osteoporosis in post menopausal women.	(5)
9B)	Primary open angle glaucoma.	(5)

Write briefly on the following:

10A)	Regimens for H.Pylori infection.	(5)
10B)	Management of cerebral malaria.	(5)

MANIPAL UNIVERSITY

FIRST YEAR M. PHARM. DEGREE EXAMINATION - MAY 2017
SUBJECT: CLINICAL AND HOSPITAL PHARMACY (PPR 603T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)
Tuesday, May 23, 2017 (10.00 - 13.00 Hrs.)

Duration: 180 mins.

Marks: 100

Answer ALL the questions.

1) Define drug interaction. Explain the mechanism of pharmacokinetic drug interactions with suitable examples. (10)

2) Describe different steps involved in Drug Utilization Evaluation (DUE) program with the help of a schematic representation. (10)

3) Define purchase and inventory. Discuss the procedure for purchasing drugs in a large hospital. (10)

4) Define hospital formulary and formulary system. Explain the guiding principles to adapt formulary system in the hospital. (10)

5) Enumerate various drug distribution systems and explain any two with its advantages and disadvantages. (10)

6) Discuss the selection of location and schedule N requirements to start a community pharmacy. (10)

7) Explain the various methods to detect medication non-adherence. (10)

8) Explain the various Pulmonary Function Tests (PFT) with flowchart. (10)

Write short notes on:

9A) Polypharmacy and its implication. (5)

9B) Rational drug use. (5)

Write briefly on the following:

10A) Cohort study. (5)

10B) OTC drugs. (5)

MANIPAL UNIVERSITY

FIRST YEAR M. PHARM. DEGREE EXAMINATION - MAY 2017
SUBJECT: DRUG DISCOVERY DEVELOPMENT AND CLINICAL RESEARCH (PPR 604T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)
Thursday, May 25, 2017 (10.00 - 13.00 Hrs.)

Marks: 100

Duration: 180 mins.

Answer ALL the questions.

1)	With appropriate timelines and explain the Drug Discovery development process.	(10)
2)	Explain various Drug Characterization techniques.	(10)
3)	Explain guinea pig maximization test and local lymph node assay in detail.	(10)
4)	Explain Phase Zero and Phase I clinical trial.	(10)
5)	Explain the role of sponsor in trial initiation, auditing and ADR reporting.	(10)
6)	Discuss safety monitoring in clinical trial according to regulations.	(10)
7)	Explain the composition, function and operation of independent ethics committee (IEC).	(10)
8)	Explain the regulatory environment for the conduct of Clinical Trials in India.	(10)

Write short notes on:

9A)	Pre - ICH period with examples.	(5)
9B)	Challenges in the implementation of GCP guidelines.	(5)

Write briefly on the following:

10A)	Informed consent process in clinical trials.	(5)
10B)	Various components of Biomedical Literature review.	(5)

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FIRST YEAR M. PHARM. DEGREE EXAMINATION - MAY 2017
SUBJECT: CLINICAL PHARMACOKINETICS, TOXICOLOGY AND BIOSTATISTICS (PPR 605T)
(SPECIALIZATION: PHARMACY PRACTICE)
(2014 REGULATION)
Saturday, May 27, 2017 (10.00 - 13.00 Hrs.)

Duration: 180 mins.

Marks: 100

Answer ALL the questions.

1) What is power of a statistical test and how it is calculated? Describe the calculation of sample size for estimation proportion and comparison of mean. (10)

2) Enlist the various statistical tests available for comparison of mean and write the general steps of calculation of any two such tests. (10)

3) Explain the role of atropine, pralidoxime and glycopyrrolate in the management of organophosphorus poisoning. (10)

4) Explain the role different factors affecting drug distribution and metabolism. (10)

5) Enlist various methods used in estimation of bioavailability of drugs. Explain any two. (10)

6) Enlist different stages of Acetaminophen Poisoning. Explain the role of Rumack and Matthew Nomogram in the management of Acetaminophen Poisoning. (10)

7) Explain the pharmacotherapy of nicotine abuse. (10)

8) Enlist different source, clinical symptoms and management of lead poisoning. (10)

Write short notes on:

9A) Normal distribution and its application. (5)

9B) Non-linear Kinetics. (5)

Write briefly on the following:

10A) Barbiturate poisoning. (5)

10B) Poison severity Scale. (5)