

MANIPAL UNIVERSITY**FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY/JUNE 2011****SUBJECT: PD 4.1: PHARMACOTHERAPEUTICS – III**

Tuesday, May 24, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

☞ Long Essay Questions:

1. Explain the clinical manifestations and management of Parkinsonism. (10 marks)
- 2A. Define Epilepsy and explain the management of partial seizures.
- 2B. Explain the management of generalized tonic clonic seizures with an algorithm. (5+5 = 10 marks)
- 3A. Explain the role of haloperidol and clozapine in the management of schizophrenia.
- 3B. Describe the clinical features and treatment of mania. (5+5 = 10 marks)

4. Short Essay Questions:

- 4A. Discuss the role of pre exposure Hepatitis B vaccination.
- 4B. Explain the role of coagulation factors in deep venous thromboembolism.
- 4C. Explain the management of migraine headache.
- 4D. Explain four mechanisms of drug induced thrombocytopenia with examples.
- 4E. Explain the criteria in evaluating literature for evidence based guidelines.
- 4F. Discuss the various drugs used in the treatment of peptic ulcer with their dose and side effects. (5×6 = 30 marks)

5. Short Answer Questions:

- 5A. Mention significance of parenteral nutrition in the treatment of inflammatory bowel disease.
- 5B. Explain the management of anemia due to chronic renal failure.
- 5C. Explain the role of gabapentin in neuropathy.
- 5D. Explain the management of antitubercular drug induced hepatic injury.
- 5E. Differentiate the laboratory tests for iron deficiency anemia and vitamin B₁₂ deficient anemia. (2×5 = 10 marks)



MANIPAL UNIVERSITY**FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY/JUNE 2011****SUBJECT: PD 4.2: HOSPITAL PHARMACY**

Thursday, May 26, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

Answer all Questions.**Long Essays:**

- 1A. What are the indications for Total Parenteral Nutrition solutions?
1B. Draw an algorithm for administration of Parenteral Nutrition. (5+5 = 10 marks)
2. Define Pharmacy and Therapeutic Committee (PTC). Explain the role of PTC in drug-safety, automatic stop order for dangerous drugs and preparation of emergency drug list. (1+9 = 10 marks)
3. Explain the location, layout, organization and functions of a Central Sterile Supply Room. (10 marks)
4. **Short Essays:**
- 4A. Define hospital pharmacy and explain the various pharmaceutical services rendered by the hospital pharmacists.
4B. Explain any three types of classification of hospital.
4C. Write briefly on budget preparation for hospital pharmacy.
4D. What is Continuing Professional Development and explain its purpose and principles.
4E. Define inventory and control. Explain perpetual inventory system.
4F. Explain unit dose drug distribution system. (5×6 = 30 marks)
5. **Short Answers:**
- 5A. Enumerate the guiding principles for selection, addition or deletion of drugs from the hospital formulary.
5B. Explain ABC analysis method of inventory control.
5C. Mention the steps involved in the developing therapeutic guidelines.
5D. What are a charge and noncharge drugs? Give two examples each.
5E. Explain the role of research and ethical committee in a hospital. (2×5 = 10 marks)



MANIPAL UNIVERSITY**FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY/JUNE 2011****SUBJECT: PD 4.3: CLINICAL PHARMACY**

Saturday, May 28, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

Long Essay Questions.

1. Mention the goals and describe procedure for Participation in ward rounds and drug therapy monitoring by clinical pharmacist.

(5+5 = 10 marks)

2. Explain the methods for evaluating compliance to standard in Quality Assurance of clinical pharmacy services.

(10 marks)

3. Explain the process of Evaluating Clinical trial Methodology.

(10 marks)

Short Essay Questions.

- 4A. Discuss the format of a SOAP note.
4B. Explain the laboratory assessment of anemia using RBC indices.
4C. Describe the facilities required to establish a drug information center.
4D. Briefly explain time release pattern of cardiac enzymes after Myocardial Infarction.
4E. Elaborate on the role of Pharmacist in the management of ADR.
4F. Explain the methods to prevent medication errors in an institutional set up.

(5×6 = 30 marks)

Short Questions:

- 5A. Mention the steps in drug utilization evaluation cycle.
5B. What is tertiary drug information resource? Give four examples for it.
5C. Mention Normal values of Haemoglobin and Haematocrit and their clinical significance.
5D. Enumerate steps in patient medication counseling.
5E. Mention the uses of randomization in a clinical trial.

(2×5 = 10 marks)



MANIPAL UNIVERSITY**FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY/JUNE 2011****SUBJECT: PD 4.4: BIOSTATISTICS AND RESEARCH METHODOLOGY**

Tuesday, May 31, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

Answer all Questions.**Long Essay Questions:**

1A. Define epidemiology. Explain any two types of epidemiologic studies in public health research.

1B. Describe the criteria for evaluating the biomedical literature for evidence based therapy.
(5+5 = 10 marks)

2A. Describe the contents and requirements for a good quality protocol.

2B. Describe the computerized patients record database management.
(5+5 = 10 marks)

3. Describe the tests of central tendencies.
(10 marks)

4. Short Essay Questions:

4A. Describe the two tests used to compare the mean of two samples.

4B. Explain the role of chi square tests in statistics.

4C. Explain the role of semi logarithmic graphs and cluster graphs.

4D. Define Mann Whitney U test and explain its determination.

4E. Describe the importance and determination of confidence interval.

4F. Explain the determination of sample size for proportional data.
(5×6 = 30 marks)

5. Short Answer:

5A. Explain the Gausean curve with a suitable illustration.

5B. Mention the formula for estimating Pearson's correlation.

5C. Mention the formula for estimating the mean sample size.

5D. Define relative risk and mention the formula for its determination.

5E. Explain the two types of errors in statistics.
(2×5 = 10 marks)



MANIPAL UNIVERSITY**FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY/JUNE 2011****SUBJECT: PD 4.5: BIOPHARMACEUTICS AND PHARMACOKINETICS**

Thursday, June 02, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

✍ Long Essay Questions:

1. Explain physicochemical factors influencing drug absorption.
2. Explain the principal processes of urinary elimination of drugs.
3. Explain open one compartment model for IV bolus administration.

(10×3 = 30 marks)

4. Short Essay Questions:

- 4A. Explain drug absorption from Non-oral extravascular sites.
- 4B. Describe drug interactions resulting from altered protein binding.
- 4C. Describe pulmonary and salivary excretion of drugs.
- 4D. Explain mamillary compartment models with suitable illustration.
- 4E. Explain cross-over design used in bioequivalence study.
- 4F. Explain the causes of Non-linearity in Pharmacokinetics.

(5×6 = 30 marks)

5. Short Questions:

- 5A. Mention Fick's first law of diffusion.
- 5B. What is blood brain barrier?
- 5C. Define Apparent volume of distribution.
- 5D. Define C_{max} and AUC.
- 5E. What is central compartment in compartment modeling?

(2×5 = 10 marks)



MANIPAL UNIVERSITY**FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY/JUNE 2011****SUBJECT: PD 4.6: CLINICAL TOXICOLOGY**

Saturday, June 04, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

✍ Long Essay Questions:

- 1A. Explain general principles of gut decontamination with its advantages and disadvantages.
1B. Describe the role of antidotes in the management of poisoning. (5+5 = 10 marks)
- 2A. Explain the clinical features of acute paracetamol poisoning and its management.
2B. Classify pyrethroids. Explain clinical features and management of pyrethroid poisoning. (5+5 = 10 marks)
- 3A. Explain the various toxidromes with examples.
3B. Explain the management of organophosphorus poisoning. (5+5 = 10 marks)

4. Short Essay Questions:

- 4A. Explain clinical signs and symptoms of benzodiazepine overdose and its management.
4B. Enumerate clinical signs and symptoms of iron overdose and its management.
4C. Explain different stages of acute ethanol poisoning with its clinical features.
4D. Explain various sources, signs and symptoms of lead poisoning.
4E. Explain severity grading in poisoning by using Glasgow Coma Scale.
4F. Explain the management of cocaine detoxification. (5×6 = 30 marks)

5. Short Questions:

- 5A. Explain the clinical signs and symptoms of arsenic poisoning.
5B. Enumerate the clinical signs and symptoms of sulphuric acid poisoning.
5C. Explain the clinical sign and symptoms of alkali poisoning.
5D. Define "DUMBLES".
5E. Explain the sign and symptoms of mushroom poisoning. (2×5 = 10 marks)



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FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY/JUNE 2011

SUBJECT: PD 4.7: PHARMACOTHERAPEUTICS – I & II

Monday, June 06, 2011

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

✍ **Answer all questions.**

✍ **Long Essay:**

1A. Explain the pathophysiology of Hypertension.

1B. Discuss the JNC-7 guidelines for the treatment for Hypertension.

(5+5 = 10 marks)

2A. Explain the complications of Chronic renal failure and management of any two.

2B. Explain the role of diuretics and Angiotensin converting enzyme inhibitors (ACEIs) in Congestive cardiac failure.

(5+5 = 10 marks)

3. Discuss the management of Type II Diabetes Mellitus.

(5+5 = 10 marks)

4. Short Essay:

4A. Explain the pharmacotherapy of acute coronary syndrome.

4B. Classify anti-hyperthyroid drugs with their adverse effects.

4C. Discuss the management of Gout.

4D. Explain the management of uncomplicated Malaria.

4E. Discuss the role of DMARDs in the management of Rheumatoid arthritis.

4F. Explain the role of the methyl xanthine derivatives in the management of Asthma.

(5×6 = 30 marks)

5. Short Answers:

5A. Enumerate the clinical signs and symptoms of Systemic lupus erythematosus (SLE)

5B. Explain the role of statins in Hyperlipidaemia.

5C. Enlist the major adverse effects of Oral contraceptives.

5D. Enumerate the adverse effects of first line antitubercular drugs

5E. Mention the treatment of Sinusitis.

(2×5 = 10 marks)

