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FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: PD 4.1: PHARMACOTHERAPEUTICS - III

Thursday, May 23, 2013

Time: 10:00 - 13:00 Hrs.

Max. Marks: 70

∠ Long Essay Questions:

- 1. Explain the DSM criteria for schizophrenia. Explain the role of lithium in psychiatric disorders.
- 2. Explain the clinical manifestations and management ascites and portal hypertension.
- 3. Explain the Pathophysiology and management of Parkinsonism.

 $(10 \times 3 = 30 \text{ marks})$

4. Short Essay Questions:

- 4A. Explain the management of ischemic and hemorrhagic stroke.
- 4B. Explain the role of non benzodiazepines in the management of anxiety disorders.
- 4C. Explain the symptoms and management of iron deficiency anemia.
- 4D. Describe the management of NSAID induced peptic ulcer.
- 4E. Explain the management of Crohn's disease.
- 4F. Explain the procedure for grading the clinical evidences.

 $(5\times6 = 30 \text{ marks})$

5. Short Answers Questions:

- 5A. Enumerate four drugs with their doses used for obsessive compulsive disorder.
- 5B. Mention the management of hepatic encephalopathy.
- 5C. List out the difference between gastric ulcer and duodenal ulcer.
- 5D. Mention the role of tricyclic anti-depressants in affective disorders.
- 5E. List out the management options for megaloblastic anemia.

 $(2 \times 5 = 10 \text{ marks})$



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FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: PD 4.2: HOSPITAL PHARMACY

Saturday, May 25, 2013

Time: 10:00 - 13:00 Hrs.

Max. Marks: 70

- Answer ALL questions.
- ∠ Long Essay:
- 1. Define hospital. Explain organization chart of the hospital.

(2+8 = 10 marks)

- 2A. Explain various granulation methods with its advantages.
- 2B. Describe various quality control tests for tablet formulation.

(5+5 = 10 marks)

3. Define inventory, Reorder Quantity Level (RQL) and Economic Order Quantity (EOQ). Explain various methods to calculate economic order quantity.

(3+7 = 10 marks)

- 4. Short Essay:
- 4A. What are the different professional relations and practices of hospital pharmacist in the hospital?
- 4B. Define Pharmacy Therapeutic Committee. Explain its objectives and composition.
- 4C. Explain the procedure for developing therapeutic guidelines.
- 4D. Explain floor stock drug distribution method with its advantages and disadvantages.
- 4E. Explain the legal basis of hospital formulary system.
- 4F. Draw an activity chart of hospital pharmacy.

 $(5\times6=30 \text{ marks})$

- 5. Short Answers:
- 5A. Enumerate various functions of Central Sterile Supply Roam.
- 5B. Mention the components of newsletter.
- 5C. What are the advantages and disadvantages of hospital formulary system?
- 5D. Write four advantages of unit dose drug distribution system.
- 5E. Write four pharmaceutical services rendered by hospital pharmacists.



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FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: PD 4.3: CLINICAL PHARMACY

Tuesday, May 28, 2013

Time: 10:00 - 13:00 Hrs.

Max. Marks: 70

∠ Long Essay Questions:

- 1. Explain the causality assessment of ADR's according to WHO and Naranjo's scale.
- 2. Explain the goal and procedure for medication order review.
- 3. Define drug information and explain various drug information resources with its merits and demerits.

 $(10 \times 3 = 30 \text{ marks})$

4. Short Essay Questions:

- 4A. Define and classify medication errors as per American Society of Health-System Pharmacists (ASHP).
- 4B. Explain the various interventions during ward round participation.
- 4C. Define Drug Utilization Evaluation (DUE) and explain the classification of DUE studies.
- 4D. Explain briefly the principle involved in pharmaceutical care.
- 4E. Explain various cardiac markers with its clinical significance.
- 4F. Explain the verbal communication skills needed for effective patient counseling.

 $(5\times6 = 30 \text{ marks})$

5. Short Questions:

- 5A. Define ADR and ADE according to WHO.
- 5B. Write the clinical significance of red blood cells distribution width (RDW).
- 5C. Expand the given medical Abbreviations: ABG, CABG, BPH, LMWH.
- 5D. Write the goals of clinical review.
- 5E. Write the clinical application of Therapeutic Drug Monitoring.



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FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: PD 4.4: BIOSTATISTICS AND RESEARCH METHODOLOGY

Thursday, May 30, 2013

Time: 10:00 - 13:00 Hrs.

Max. Marks: 70

Answer ALL questions.

∠ Long Essay:

- 1. Briefly discuss the methodology of different observational studies.
- 2. Classify the tests for significance with suitable examples and describe any two tests for comparison of means.
- 3. Describe the need for sample size calculation in clinical studies. Explain the methodology of sample size for estimation of mean and comparison of mean.

 $(10\times3 = 30 \text{ marks})$

4. Short Essay Questions:

- 4A. Give examples for non-parametric tests and write the methodology of Mann Whitney U test.
- 4B. Discuss the role of computers in patient data management in hospitals.
- 4C. What are the assumptions of Chi-square test? Write the general steps involved in calculation of Chi-square test for association.
- 4D. Define odds ratio and relative risk, with the help of suitable examples explain their importance in demiological studies.
- 4E. Write the general steps involved in the calculation of One-way ANOVA.
- 4F. Briefly explain the applications of SPSS and Epi Info software in biomedical research.

 $(5 \times 6 = 30 \text{ marks})$

5. Short Answer Questions:

- 5A. State the assumptions of t-tests.
- 5B. Calculate the standard deviation for Hb content of following six students- 14.6, 13.4, 15.8, 11.8, 12.5, 15.1.
- 5C. Name the different post-hoc tests used during analysis of variance (ANOVA).
- 5D. Write the formula for calculation of coefficient variation. What is its application?
- 5E. Define power of a statistical test. Name the parameters which affect power.





FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: PD 4.5: BIOPHARMACEUTICS AND PHARMACOKINETICS

Saturday, June 01, 2013

Time: 10:00 - 13:00 Hrs.

Max. Marks: 70

1. Long Essay Questions:

- 1A. Discuss in detail about non-renal routes of elimination.
- 1B. Explain causes of Nonlinearity of pharmacokinetics and describe Michaelis-Menten equation for non-linear pharmacokinetics.
- 1C. Explain the factors affecting drug distribution.

 $(10 \times 3 = 30 \text{ marks})$

2. Short Essay Questions:

- 2A. Explain mamillary compartment models with suitable illustration.
- 2B. Discuss Enterohepatic cycling.
- 2C. Discuss about patient related factors affecting protein binding of drugs.
- 2D. Describe open one compartment model for IV Infusion administration.
- 2E. Explain the factors affecting gastric emptying rate.
- 2F. Discuss on the binding sites of human serum albumin.

 $(5\times6=30 \text{ marks})$

3. Short Answer Questions:

- 3A. What is blood brain barrier?
- 3B. Define Apparent volume of distribution.
- 3C. Describe the effect of temperature on gastric emptying.
- 3D. Mention Cockgroft Gault formula for calculating creatinine clearance.
- 3E. Define bioavailability.



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MANIPAL UNIVERSITY

FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: PD 4.6: CLINICAL TOXICOLOGY

Monday, June 03, 2013

Time: 10:00 - 13:00 Hrs.

Max. Marks: 70

- 1A. Classify venomous snakes and differentiate them.
- 1B. Explain the role of methionine and N-acetylcysteine in paracetamol poisoning.

(5+5 = 10 marks)

- 2A. Explain the principles of antidote in the management of poisoning.
- 2B. Classify pyrethroids. Explain clinical features and management of pyrethroid poisoning.

(5+5 = 10 marks)

- 3A. Explain the management of alcohol withdrawal syndrome.
- 3B. Explain clinical features and management of acute iron overdose.

(5+5 = 10 marks)

- 4A. Classify organophosphorus insecticides according to WHO criteria. Explain "DUMBLES".
- 4B. Explain the first Aid measures in snake bite poisoning.
- 4C. Classify toxidromes with suitable examples.
- 4D. Explain the grading of severity of poisoning according to Poison Severity scale.
- 4E. Explain various sources, sign and symptoms of lead poisoning.
- 4F. Explain the management of cocaine detoxification.

 $(5\times6=30 \text{ marks})$

- 5A. Explain the role of atropine in OP poisoning.
- 5B. Enumerate the clinical sign and symptoms of lead poisoning.
- 5C. Enumerate the advantages and disadvantages of charcoal administration in gut decontamination.
- 5D. Enumerate the clinical sign and symptoms of benzodiazepine overdose.
- 5E. Define ABCD management in acute poisoning.