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MANIPAL UNIVERSITY

FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY 2010

SUBJECT: PD 4.1: PHARMACOTHERAPEUTICS – III

Monday, May 03, 2010

Time: 10:00 – 13:00 Hrs.   Max. Marks: 70

✍ **Answer ALL questions.**

✍ **Long Essay Questions.**

1A. Define Epilepsy and explain the etiopathogenesis of epilepsy.

1B. Explain the algorithm for management of generalized tonic clonic seizure.

(5+5 = 10 marks)

2A. Explain etio-pathogenesis of Parkinsonism.

2B. Explain the levodopa/carbidopa and dopamine agonists in the management of Parkinsonism.

(5+5 = 10 marks)

3A. Explain the role of first generation antipsychotics.

3B. Explain the role of non benzodiazepines in the management of anxiety disorders.

(5+5 = 10 marks)

✍ **Short Essay Questions.**

4A. Discuss the role of Interferon's in the treatment of viral hepatitis.

4B. Explain the management of drug induced aplastic anemia.

4C. Explain the management of peripheral neuropathic pain in diabetes patients.

4D. Explain the management of inflammatory bowel diseases.

4E. Explain the steps of evaluating biomedical literature for evidence based therapy.

4F. Enumerate the risk factors for venous thromboembolism and explain the advantages of Low-molecular weight heparin in its management.

(5×6 = 30 marks)

✍ **Short Questions.**

5A. Explain the treatment of pernicious anemia.

5B. Explain the ascending pain pathway with an illustration.

5C. Explain the role of SSRIs in the treatment of depression.

5D. Enumerate the role of lithium and valproate in the treatment of mania.

5E. Enumerate the symptoms of obsessive compulsive disorder.

(2×5 = 10 marks)

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FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY 2010

SUBJECT: PD 4.2: HOSPITAL PHARMACY

Tuesday, May 04, 2010

Time: 10:00 – 13:00 Hrs.   Max. Marks: 70

✎   **Answer ALL questions.**

✎   **Long Essays:**

1A.   Discuss the different types of vehicles used in the manufacturing of creams.

1B.   Write the compounding plan for an adult Total Parentral Nutrition (TPN) solution regimen.

(5+5 = 10 marks)

2A.   Explain the role of pharmacist and purchasing agent in the procurement of drugs in the hospital pharmacy of a large hospital.

2B.   Describe the procedure for purchase of drugs in the hospital pharmacy.

(5+5 = 10 marks)

3.   Define Central Sterile Supply Room (CSSR). Explain its layout, organization and functions.

(10 marks)

✎   **Short Essays:**

4A.   Enumerate various categories of staffs working in the hospital pharmacy. Explain the selection criteria for appointing the staff in the pharmacy.

4B.   Define Pharmacy and Therapeutic Committee (PTC). Explain the role of PTC in ADR monitoring and reporting in the hospital.

4C.   Write briefly about the handling of radiopharmaceuticals in the hospital.

4D.   What is Continuing Professional Development for pharmacist? Explain its purpose and principles.

4E.   Explain individual prescription order method of dispensing to inpatients with its advantages and disadvantages.

4F.   Explain the procedure to obtain the ward stock of Narcotics from the pharmacy.

(5×6 = 30 marks)

✎   **Short Answers:**

5A.   Enumerate the content to be included in the hospital formulary.

5B.   Mention any four advantages of unit dose drug distribution system.

5C.   Write any two classifications of hospitals.

5D.   Explain the control of perishable drugs in the hospital pharmacy.

5E.   List out the members of Infection Control Committee and Pharmacy and Therapeutic Committee.

(2×5 = 10 marks)

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FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY 2010

SUBJECT: PD 4.3: CLINICAL PHARMACY

Wednesday, May 05, 2010

Time: 10:00 – 13:00 Hrs.   Max. Marks: 70

✍ **Answer ALL questions.**

✍ **Long Essay Questions:**

1. Explain Pharmacist's Work of Drug therapy in Pharmaceutical care.

(10 marks)

2. Discuss the procedure for patient medication history interview and pharmacists attending ward rounds.

(5+5 = 10 marks)

3A. Define Pharmacovigilance.

3B. Explain various types of adverse drug reactions.

3C. Explain the role of pharmacist in reporting, managing and documenting adverse drug reactions.

(2+4+4 = 10 marks)

✍ **Short Essay Questions:**

4A. Discuss in detail about various drug information resources with their advantages and disadvantages.

4B. Explain the format of SOAP note.

4C. Describe the factors responsible for medication errors and their consequences.

4D. Differentiate various types of anemia using RBC indices.

4E. Define therapeutic drug monitoring and list out indications for carrying out TDM.

4F. Explain about communication skills needed for patient medication counseling.

(5×6 = 30 marks)

✍ **Short Questions:**

5A. Mention the steps involved in modified systematic approach in answering a drug information query.

5B. Expand the abbreviation: PRIME.

5C. Mention the indications for therapeutic drug monitoring.

5D. What is peer review process?

5E. Mention any four categories of medication error.

(2×5 = 10 marks)

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FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY 2010

SUBJECT: PD 4.4: BIOSTATISTICS AND RESEARCH METHODOLOGY

Thursday, May 06, 2010

Time: 10:00 – 13:00 Hrs.   Max. Marks: 70

✍ **Answer ALL questions.**

✍ **Long Essay Questions:**

1A. Explain the advantages and disadvantages of case control studies.

1B. Explain the types of cohort studies.

(5+5 = 10 marks)

2A. Explain the need for sample size determination.

2B. Explain the methods adopted to calculate sample size for mean values.

(5+5 = 10 marks)

3A. Classify and describe the various types of data with suitable examples.

3B. Describe the various types of data distribution.

(5+5 = 10 marks)

✍ **Short Essay Questions:**

4A. Explain the pie charts and scatter plots with suitable examples.

4B. Explain any two tests for the spread of data.

4C. Define confidence interval and explain its application.

4D. Define standard deviation and explain its determination with a suitable example.

4E. Define the power of a study and explain its determination.

4F. Explain scatter plots with an illustration.

(5×6 = 30 marks)

✍ **Short Answer Questions:**

5A. Mention the formula for estimating the spearman's correlation.

5B. Explain Kruskal Wallis test.

5C. Explain four applications of computers in hospital pharmacy.

5D. Mention the formula for unpaired students t test.

5E. Differentiate incidence and prevalence.

(2×5 = 10 marks)

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FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY 2010

SUBJECT: PD 4.6: CLINICAL TOXICOLOGY

Saturday, May 08, 2010

Time: 10:00 – 13:00 Hrs.   Max. Marks: 70

✍ **Answer ALL questions.**

✍ **Long Essay Questions:**

1A. Explain the role of basic life supportive care in the management of poisoning.

1B. Explain the application of toxicokinetics in the management of poisoning.

(5+5 = 10 marks)

2A. Explain the Rumack-Matthew nomogram in paracetamol poisoning.

2B. Discuss the management of paracetamol poisoning.

(5+5 = 10 marks)

3A. Explain the complication of acute organophosphorus poisoning.

3B. Explain the clinical manifestation of alcohol withdrawal syndrome.

(5+5 = 10 marks)

✍ **Short Essay Questions:**

4A. Explain the management of arsenic poisoning.

4B. Discuss the clinical features and management of cocaine abuse.

4C. What are different indications for anti-snake venom therapy and explain the administration of anti-snake venom.

4D. Explain the clinical sign and symptoms of benzodiazepine poisoning and its management.

4E. Explain the role of gastric lavage and charcoal administration in gut decontamination process.

4F. Discuss the clinical features of hallucinogenic drug abuse.

(5×6 = 30 marks)

✍ **Short Questions:**

5A. Explain cholinergic syndrome with suitable example.

5B. Explain the role of haemodialysis in the management of poisoning.

5C. Explain neuroleptic syndrome.

5D. Enumerate the clinical features of mercury poisoning.

5E. Explain the clinical signs and symptoms of carbamate poisoning.

(2×5 = 10 marks)

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FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE EXAMINATION – MAY 2010

SUBJECT: PD 4.7: PHARMACOTHERAPEUTICS – I & II

Monday, May 10, 2010

Time: 10:00 – 13:00 Hrs.   Max. Marks: 70

✍ **Answer ALL questions.**

✍ **Long Essays:**

1A. Explain the various insulin preparations in terms of onset of action, peak effect and duration of action.

1B. Explain the management of diabetic ketoacidosis.

(6+4 = 10 marks)

2A. Discuss the management of acute severe Asthma.

2B. Describe the role of antibiotics and anti cholinergics in Chronic Obstructive Pulmonary Diseases.

(5+5 = 10 marks)

3A. Describe the pathophysiology and management of Tuberculosis.

3B. Explain the role of biological agents of Rheumatoid arthritis.

(6+4 = 10 marks)

✍ **Short Essays:**

4A. Explain any two mechanisms of drug induced pulmonary disorders.

4B. Describe the management of uncomplicated Malaria.

4C. Discuss the treatment of Osteoarthritis.

4D. Explain the role of diuretics and calcium channel blockers in the management of Hypertension.

4E. Explain the management of Hyperthyroidism.

4F. Discuss the role of mannitol in Meningitis.

(5×6 = 30 marks)

✍ **Short Answers:**

5A. Enumerate the adverse effects of sulphonyl ureas.

5B. Explain the role of nucleoside reverse transriptase inhibitors (NRTIs) in HIV management.

5C. Explain the role of macrolides in lower Respiratory tract infections.

5D. Explain the role of isosorbide mononitrate in acute Angina.

5E. Explain nitrate tolerance and the method to prevent the same.

(2×5 = 10 marks)

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