

MANIPAL ACADEMY OF HIGHER EDUCATION**FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D.
DEGREE EXAMINATION – MAY 2019****SUBJECT: PPR 4.1T: PHARMACOTHERAPEUTICS – III
(2014 REGULATION)**

Wednesday, May 22, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

✍ **Answer ALL the questions.**

✍ **Long answer questions:**

1. Classify different types of headaches and explain management of migraine head ache.
2. Explain the etio-pathogenesis of chronic liver disorders. Explain the management of ascitis and hepatic encephalopathy in alcoholic liver disease.
3. Explain the pathophysiology and management of ischemic and hemorrhagic stroke.

(10 marks × 3 = 30 marks)

4. **Short answer questions:**

- 4A. Explain the role of tricyclic antidepressants in affective disorders.
- 4B. Describe the etiology and management of drug induced hemolytic anemia.
- 4C. Explain the role of levodopa/carbidopa combination in the management of Parkinsonism.
- 4D. Describe the management of NSAID induced ulcers.
- 4E. Enumerate the risk factors for venous thromboembolism and explain the advantages of Low-molecular weight heparin in its management.
- 4F. Define epilepsy and explain the international classification of epilepsy based on clinical presentation.

(5 marks × 6 = 30 marks)

5. **Give Reason for the Following:**

- 5A. Atypical antipsychotics have advantages over typical antipsychotics.
- 5B. Schilling test is used for the diagnosis of pernicious anemia.
- 5C. The etiology of ulcerative colitis and Crohn's disease are not same.
- 5D. Multi-drug regimen is necessary to eradicate the *H.pylori* infection.
- 5E. Vitamin B12 has specific role in the management of megaloblastic anemia.

(2 marks × 5 = 10 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D.
DEGREE EXAMINATION – MAY 2019****SUBJECT: PPR 4.2T: HOSPITAL PHARMACY
(2014 REGULATION)**

Tuesday, May 14, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

Answer ALL the questions.**1. Long answer questions:**

- 1A. Enumerate various types of liquid dosage forms. Discuss formulation of any one of liquid dosage formulation.
- 1B. i) Explain the role of pharmacist and purchasing agent in the procurement of drugs in the hospital pharmacy of a large hospital.
- ii) Describe the procedure for purchase of drugs in the hospital pharmacy.
- 1C. Define Central Sterile Supply Room (CSSR). Explain its layout, organization and functions.
- (10 marks × 3 = 30 marks)

2. Short Answer Questions:

- 2A. Enumerate various categories of staffs working in the hospital pharmacy. Explain the selection criteria for appointing the staff in the pharmacy.
- 2B. Define Pharmacy & Therapeutic Committee (PTC). Explain the role of PTC in ADR monitoring and reporting in the hospital.
- 2C. What is radiopharmaceuticals and mention any four radioactive substances used for treatment and diagnosis purposes.
- 2D. Why Continuing Professional Development programme required for the practicing pharmacists?
- 2E. Explain individual prescription order method of dispensing to inpatients with its advantages and disadvantages.
- 2F. Explain the procedure in case of waste or destruction, contamination etc. of narcotics and controlled substances in the hospital.

(5 marks × 6 = 30 marks)

3. Give reasons for the following:

- 3A. Liniment should not be applied on broken skin
- 3B. Proper inventory control method is required for any store.
- 3C. Hospital pharmacy department should maintain the good relation with various departments of hospital.
- 3D. Hospital is a complex organization.
- 3E. Trial involving human subjects requires ethical committee approval.

(2 marks × 5 = 10 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

**FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D.
DEGREE EXAMINATION – MAY 2019**

**SUBJECT: PPR 4.3T: CLINICAL PHARMACY
(2014 REGULATION)**

Monday, May 20, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

✍ **Answer ALL the questions.**

✍ **Long answer questions:**

1. Describe non verbal and verbal communication skills required for clinical pharmacist.
2. Explain the merits and demerits of secondary drug information resource and discuss the steps of modified systematic approach in answering a drug information query.
3. Discuss the steps in Drug Utilization Evaluation (DUE) cycle.

(10 marks × 3 = 30 marks)

4. **Short answer questions:**

- 4A. Describe ward round participation by clinical pharmacist.
- 4B. Explain various strategies to prevent medication errors.
- 4C. Explain the procedure for performing disc diffusion test.
- 4D. Describe the mechanism of type A adverse drug reactions.
- 4E. Explain clinical review by mentioning its goals and procedure.
- 4F. Explain the barriers in patient counseling process.

(5 marks × 6 = 30 marks)

5. **Give Reasons for the Following:**

- 5A. Special report in a journal is not considered as a primary literature
- 5B. Abnormal LFT should not be assessed in isolation.
- 5C. Audit of documentation is important in quality assurance of clinical pharmacy service.
- 5D. Use of trailing zero or use of a leading decimal point without a leading zero is dangerous order writing practice.
- 5E. Troponin I and T are specific markers of cardiac injury.

(2 marks × 5 = 10 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D.
DEGREE EXAMINATION – MAY 2019****SUBJECT: PPR 4.4T/PD 4.4: BIostatistics AND RESEARCH METHODOLOGY
(COMMON FOR 2014 & OLD REGULATION)**

Thursday, May 09, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

✍ **Answer ALL the questions.**

✍ **Long answer questions:**

1. Compare parametric and non-parametric tests. Explain the steps involved in the calculation of paired t-test and un-paired t-test.
2. Discuss the methodology, advantages and disadvantages of cohort studies.
3. Discuss the various components of a good research report or thesis.

(10 marks × 3 = 30 marks)

4. **Short answer questions:**

- 4A. Write the steps involved in the calculation of one-way ANOVA.
- 4B. Discuss the role of computers in community pharmacy.
- 4C. Explain the methodology of cross-sectional studies.
- 4D. Write the formula for calculation of odds ratio, relative risk, attributable risk, coefficient of variation and Spearman's correlation.
- 4E. Calculate mean, SD, SEM and 95% confidence interval for the data- 4, 6, 3, 8, 5, 7. (Note: $t_{0.05}=2.57$).
- 4F. What are the assumptions of Chi square test? Write the steps involved in the calculation of Chi square test.

(5 marks × 6 = 30 marks)

5. **Give reasons for the following:**

- 5A. Reference range for many biological parameters are constructed by using mean±2 SD.
- 5B. Y-axis of semi-log paper has unequal spacing between lines.
- 5C. Why Chi square is always a positive number?
- 5D. For applying parametric tests data needs to be normally distributed.
- 5E. Epi Info software is ideal for the analysis of epidemiological data.

(2 marks × 5 = 10 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D.
DEGREE EXAMINATION – MAY 2019

SUBJECT: PPR 4.5T/PD 4.5: BIOPHARMACEUTICS AND PHARMACOKINETICS
(COMMON FOR 2014 & OLD REGULATION)

Thursday, May 16, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

1. **Long answer questions:**

- 1A. Explain factors affecting drug absorption
- 1B. Explain the principal processes of drug elimination
- 1C. Describe two compartment model for IV bolus administration

(10 marks × 3 = 30 marks)

2. **Short Answer Questions:**

- 2A. Explain the concept of Apparent volume of distribution.
- 2B. Explain drug interactions resulting from altered protein binding.
- 2C. Explain the determination of Renal function.
- 2D. Discuss on the binding sites of human serum albumin.
- 2E. Explain Mamillary compartment models with suitable illustration.
- 2F. Describe Michaelis-Menten equation for non-linear kinetics

(5 marks × 6 = 30 marks)

3. **Give Reasons for the Following:**

- 3A. In presence of fluorides, active transport is hindered
- 3B. In pregnancy volume of distribution increases
- 3C. In elderly free concentration of certain drugs increase
- 3D. Molecules larger than 500 daltons are not readily excreted through urine
- 3E. Albumin is important protein which binds drugs.

(2 marks × 5 = 10 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**FIRST YEAR PHARM D (POST BACCALAUREATE)/FOURTH YEAR PHARM D.
DEGREE EXAMINATION – MAY 2019****SUBJECT: PPR 4.6T: CLINICAL TOXICOLOGY
(2014 REGULATION)**

Saturday, May 11, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

✍ **Answer ALL the questions.**✍ **Long answer questions:**

1A. Enlist the indications for anti-venom treatment in the management of snake poisoning.

1B. Explain the process of administration of anti-venom.

(10 marks)

2A. Describe the clinical features and management of benzodiazepine poisoning.

2B. Explain the different types of clinical syndromes in Organophosphate Poisoning (OP).

(10 marks)

3A. Explain the role of Glasgow coma scale in severity assessment of poisoning.

3B. Explain the importance of toxicokinetic principles in management of poisoning.

(10 marks)

4. **Short answer questions:**

4A. Discuss N-Acetyl Cysteine (NAC) therapy in acetaminophen poisoning.

4B. Explain clinical features and management of methanol poisoning.

4C. Explain the clinical features of LSD abuse and treatment of its dependence.

4D. Explain the role of nicotine replacement therapy in smoking cessation.

4E. Discuss the clinical features and management of copper sulphate poisoning.

4F. Explain the clinical features and management of mushroom poisoning.

(5 marks × 6 = 30 marks)

5. **Give reason for the following:**

5A. Charcoal plays important role in gut decontamination.

5B. Naloxone can be used as an antidote for opiate toxidrome

5C. Acetylcholinesterase enzyme level is not a diagnostic indicator in organophosphate poisoning.

5D. Alkalinization of urine useful in the management of phenobarbital poisoning.

5E. Coagulopathy is a prominent symptoms of viper bite

(2 marks × 5 = 10 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST YEAR PHARM D (POST BACCALAUREATE) DEGREE
EXAMINATION – MAY 2019

SUBJECT: PPR 4.7T: PHARMACOTHERAPEUTICS – I & II

Tuesday, May 07, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 70

✍ **Answer ALL the questions.**

✍ **Long essay questions:**

1. Discuss the management of Hypertension according to JNC-7 guidelines?
(10 marks)
2. Discuss the management of osteoarthritis with the help of a treatment flow chart.
(10 marks)
- 3A. Explain the etiology and management of any two common complications during Hemodialysis.
- 3B. Compare and contrast the advantages and disadvantages of hemodialysis and peritoneal dialysis.
(5+5 = 10 marks)

4. **Short essay questions:**

- 4A. Explain the significance of lung volume tests with a neat illustration.
- 4B. Explain the management of Diabetic Ketoacidosis.
- 4C. Discuss the prescribing guidelines in pregnancy and breast feeding.
- 4D. Discuss the role of trastuzumab and lapatinib in the management of HER2-overexpressed early and advanced stage breast cancer.
- 4E. Classify antiretroviral therapy of HIV disease with suitable examples for each class of drugs.
- 4F. Explain the systemic pharmacotherapy of the management of psoriasis.
(5 marks × 6 = 30 marks)

5. **Give reasons for the following:**

- 5A. Therapeutic drug monitoring for theophylline is needed.
- 5B. Treatment failure is observed with Antiretroviral therapy.
- 5C. Steroid use as bridging therapy in management of rheumatoid arthritis.
- 5D. Chemoprophylaxis of malaria is needed during pre-travel consultation.
- 5E. Certain risk factors are associated with hospital acquired pneumonia.
(2 marks × 5 = 10 marks)

