

Question Paper

Exam Date & Time: 11-Jul-2019 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR PHARM D. DEGREE EXAMINATION - JULY 2019

SUBJECT: PPR 2.1T: PATHOPHYSIOLOGY

(2014 - REGULATIONS)

Thursday, July 11, 2019 (10.00 - 13.00 Hrs.)

Answer ALL questions.

Marks: 70

Duration: 180 mins.

Long Answer Questions:

- 1) Discuss the etiology and pathogenesis of congestive heart failure. (10)
- 2) Explain the TNM classification of malignant tumor and discuss the factors affecting growth of malignant tumor. (10)
- 3) Classify hypersensitive reactions and explain any two in detail with examples. (10)

4) Short Answer Questions

- 4A) Discuss the various mechanisms responsible for increased vascular permeability during inflammation. (5)
- 4B) Describe the etiology of intrinsic renal damage (failure). (5)
- 4C) Discuss the various types of glycogen storage disease. (5)
- 4D) Discuss the pathophysiology of asthma. (5)
- 4E) Discuss criteria for manic episode as per diagnostic and statistical manual of mental disorder (DSM-IV). (5)
- 4F) Enlist the difference between tuberculoid and lepromatous leprosy. (5)

5) Give Reasons for the Following:

- 5A) Interferon- γ plays important role in the formation of granuloma. (2)
- 5B) Xenografts always undergo hyper-acute rejections. (2)
- 5C) Diabetes ketoacidosis is a complication of type-1 diabetes mellitus. (2)
- 5D) Relapse and reinfection urinary tract infection is different from each other. (2)
- 5E) Hand hygiene is very important for prevention of hepatitis infection. (2)

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Question Paper

Exam Date & Time: 13-Jul-2019 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR PHARM D. DEGREE EXAMINATION - JULY 2019
SUBJECT: PBT 2.2T: PHARMACEUTICAL MICROBIOLOGY
(REVISED REGULATIONS 2014)
Saturday, July 13, 2019 (10.00 - 13.00 Hrs.)

Answer ALL questions.

Marks: 70

Duration: 180 mins.

Long Answer Questions:

- 1) Define staining and classify staining techniques. Briefly outline the principle and procedure for Gram's staining. (10)
- 2) Draw a neat labelled diagram of a Hot air oven and describe its design. (10)
- 3) Define and classify immunity. Explain the structure, classification and functions of immunoglobulins. (10)

4) Short Answer Questions:

- 4A) With a neat labelled diagram, explain the structure of bacteriophage. (5)
- 4B) Enlist the methods of quantitative measurement of bacterial growth and explain any one method used to determine total count of bacteria. (5)
- 4C) Enlist the factors affecting the course of disinfection process and explain any two. (5)
- 4D) Explain the principle involved in sandwich ELISA and enlist its applications. (5)
- 4E) Briefly outline the protocol to carry out microbiological assay of antibiotics by tube dilution method. (5)
- 4F) Write the causative organisms, mode of transmission, symptoms and treatment for typhoid. (5)

Give reasons for the following:

- 5A) Resolving power is the limitation for increasing the magnification power of a light microscope. (2)
- 5B) Bacteria reproduce asexually. Still they can exchange genetic material. (2)
- 5C) Fluid thioglycolate medium is not suitable for growth of molds. (2)
- 5D) Turbidimetric measurement of bacterial growth is not suitable for plotting normal bacterial growth curve. (2)
- 5E) Tyndallisation is not suitable to sterilise injections containing thermo labile medicaments. (2)

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Question Paper

Exam Date & Time: 18-Jul-2019 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR PHARM D. DEGREE EXAMINATION - JULY 2019

SUBJECT: PHA 2.4T: PHARMACOLOGY - I

(REVISED REGULATIONS 2014)

Thursday, July 18, 2019 (10.00 - 13.00 Hrs.)

Answer ALL questions.

Draw a labeled diagrams wherever necessary.

Marks: 70

Duration: 180 mins.

Long answer questions:

- 1) Classify adrenergic drugs based on their therapeutic applications. Describe the pharmacological actions of adrenaline on blood vessels and heart. Explain why noradrenaline does not cause tachycardia. (10)
(3+4+3 = 10 marks)
- 2) Describe, with suitable examples, the processes of biotransformation of drugs. Explain the consequences of enzyme inhibition and induction. (10)
(6+4 = 10 marks)
- 3) Central dopaminergic pathways are involved in the therapeutic and toxic effects of antipsychotic drugs. Describe the mechanism of action of lithium. Mention its two toxicities. (10)
(6+3+1 = 10 marks)

4) Short Answer Questions:

- 4A) Mechanism of action of nitroglycerin and adverse effects. (6)
- 4B) Mechanism of action of insulin. Write briefly on insulin preparations. (6)
- 4C) Why are local anesthetics formulated as salts instead of as free bases? How do they act? (6)
- 4D) Therapeutic and toxic effects of digitalis, the mechanisms involved (6)
- 4E) Describe the physiology and pathophysiology of eicosanoids. (6)

5) Give reasons:

- 5A) Oral contraceptives fail if given concurrently to patients receiving griseofulvin. (2)
- 5B) A person taking metronidazole should be advised against drinking alcohol. (2)
- 5C) Finasteride is used in benign prostatic hypertrophy. (2)
- 5D) Oxime administration should not be delayed in organophosphorus poisoning. (2)
- 5E) Bromhexine is prescribed for people having cough with thick mucosal plug. (2)

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Question Paper

Exam Date & Time: 22-Jul-2019 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR PHARM D. DEGREE EXAMINATION - JULY 2019

SUBJECT: PPR 2.5T: COMMUNITY PHARMACY

(REVISED REGULATIONS 2014)

Monday, July 22, 2019 (10.00 - 13.00 Hrs.)

Answer ALL questions.

Marks: 70

Duration: 180 mins.

Long Answer Questions:

- 1) Explain the skills required for pharmacist to provide effective pharmaceutical care. (10)
- 2) Describe the code of ethics for the pharmacists in relationship with patients, health professionals and society. (10)
- 3) Define Inventory control. Explain any two methods of inventory control in community pharmacy. (10)

4) Short Answer Questions:

- 4A) Explain maintenance of various registers in community pharmacy. (5)
- 4B) Explain the role of community pharmacist in family planning. (5)
- 4C) Discuss the clinical presentation and prevention of Leprosy. (5)
- 4D) Explain FDA criteria for over the counter (OTC) medications. (5)
- 4E) Discuss WHO complementary indicators for promoting rational drug use. (5)
- 4F) Describe pharmacokinetic drug interactions with examples. (5)

5) Give reason for the following:

- 5A) Beta blockers and sympathomimetic drugs containing anti-cold preparations should not be administered together. (2)
- 5B) Essential drug concept is important for ensuring drug safety. (2)
- 5C) Physical limitation can affect patient compliance. (2)
- 5D) Long term use of potassium containing laxatives is not advisable. (2)
- 5E) Viral conjunctivitis does not require antibiotic therapy. (2)

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