

Question Paper

Exam Date & Time: 11-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR PHARM D DEGREE EXAMINATION - JULY 2022
SUBJECT: PPR 2.1T: PATHOPHYSIOLOGY
(Revised Regulations 2014)

Marks: 70

Duration: 180 mins.

Answer all the questions.

Long Answer Questions:

- 1) Discuss the steps involved in the healing of clean and unclean/infected wound. (10)
- 2) Discuss clinical presentation and diagnosis of myocardial infarction. (10)
- 3) With the help of a neat diagram explain the life cycle of malaria parasite. (10)

4. Short Answer Questions:

- 4A) Describe the various complications of chronic renal failure. (5)
- 4B) Describe the mechanisms involved in graft rejection. (5)
- 4C) With the help of a table contrast the features of apoptosis and necrosis. (5)
- 4D) Differentiate Crohn's disease and ulcerative colitis. (5)
- 4E) Classify sexually transmitted disease and explain any one in detail. (5)
- 4F) Discuss protein energy malnutrition. (5)

5. Give Reasons for the Following:

- 5A) In diastolic heart failure ejection fraction is normal or preserved (40-50%). (2)
- 5B) Mutations in Rb gene is responsible for most common intraocular tumor in young children. (2)
- 5C) Rhabdomyolysis and hemolysis may lead to intrinsic renal damage. (2)
- 5D) Hypertension classification is different as per JNC 7 and JNC 8 guidelines. (2)
- 5E) Recurrent urinary tract infection is associated with antibiotic resistance. (2)

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Question Paper

Exam Date & Time: 13-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR PHARM D DEGREE EXAMINATION - JULY 2022
SUBJECT: PBT 2.2T: PHARMACEUTICAL MICROBIOLOGY
(REVISED REGULATIONS 2014)

Marks: 70

Duration: 180 mins.

Answer all the questions.

Long Answer Questions:

- 1) Enlist the different methods for enumeration of bacteria. Describe the pour method for determination of viable count and add a note on limitations for the method. (10)
- 2) Define and Classify Sterilization. Describe the properties of saturated steam through phase diagram. (10)
- 3) Define the term 'immunity and explain the structure of immunoglobulin with the help of a neat labelled diagram. Add a note on bacterial exotoxins and endotoxins. (10)

4. Short Answer Questions:

- 4A) Enlist the different methods used for classification of microorganisms. Explain the classification on the basis of major characteristics of microbes. (5)
- 4B) Write a note on nutritional requirements for cultivation of bacteria. (5)
- 4C) Define disinfection. Explain any three demerits of Phenol coefficient tests. (5)
- 4D) Illustrate and explain the principle behind Indirect ELISA. (5)
- 4E) Mention the disadvantages of microbiological assay of antibiotics over physico-chemical assays and explain the properties of test organism. (5)
- 4F) Write the causative organism, mode of transmission, symptoms and treatment for tuberculosis. (5)

5. Give Reasons for the Following:

- 5A) Resolving power of oil-immersion objective is greater than that of dry objective. (2)
- 5B) Bacteria can be differentiated on the basis of cell wall composition. (2)
- 5C) Older microbial cells can exhibit Gram variable reaction. (2)
- 5D) *E.coli* can be differentiated from *Enterobacter aerogenes* by IMViC test. (2)
- 5E) Main therapy for cholera starts with rehydration. (2)

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Question Paper

Exam Date & Time: 15-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR PHARM D DEGREE EXAMINATION - JULY 2022
SUBJECT: PCO 2.3T: PHARMACOGNOSY AND PHYTOPHARMACEUTICALS
(REPEATER - REVISED REGULATIONS 2014)

Marks: 70

Duration: 180 mins.

Answer all the questions.

Draw structures and diagrams wherever necessary.

Long Answer Questions.

- 1) Describe the morphology and microscopical characters of a Datura leaf (10)
- 2) Explain the cultivation and collection techniques adopted in production of Cinchona (10)
- 3) Give a brief overview of extraction and estimation of Carbohydrates. Discuss Tragacanth under a suitable Pharmacognostic scheme (10)

4. Short Answer Questions. :

- 4A) What do you understand by morphological classification? Elaborate with suitable examples (5)
- 4B) Enlist the factors affecting cultivation of crude drugs and add a note on edaphic factors (5)
- 4C) Discuss on the extraction methods of Lipids and give the chemical test for Wool fat (5)
- 4D) Define and classify Proteins and describe general tests for proteins (5)
- 4E) Write a note on cell wall constituents and give their chemical tests (5)
- 4F) Classify pesticides and write a note on a contact poison you know (5)

5. Give Reasons for the following:

- 5A) Renaissance period is important in the history of pharmacognosy (2)
- 5B) Substitution of crude drugs with inferior quality similar looking material (2)
- 5C) Production of Hemp requires license from narcotic boards (2)
- 5D) "Alkali like, basic, heterocyclic nitrogenous organic compounds" do not represent Alkaloids completely (2)
- 5E) Cytokinins and Auxins are used in Plant Tissue Culture (2)

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Question Paper

Exam Date & Time: 21-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR PHARM D. DEGREE EXAMINATION - JULY 2022
SUBJECT: PPR 2.5T: COMMUNITY PHARMACY
(REVISED REGULATIONS 2014)

Answer ALL questions.

Marks: 70

Duration: 180 mins.

Long Answer Questions :

- 1) Explain the various factors affecting medication non-adherence and how pharmacist can improve the medication adherence level. (10)
- 2) What is Pharmaceutical care? Explain the pharmaceutical care process. (10)
- 3) Define inventory and control and explain the inventory control of a community pharmacy using any three methods. (10)

4. Short Answer Questions :

- 4A) Explain the clinical presentations and prevention of syphilis. (5)
- 4B) Explain the various barriers involved in patient counseling. (5)
- 4C) Explain the community pharmacist role in geriatric care. (5)
- 4D) Outline the procedure for measuring blood pressure using sphygmomanometer. (5)
- 4E) Explain the role of the community pharmacist in dispensing OTC medications. (5)
- 4F) Explain the various type of records maintained in the community pharmacy. (5)

5. Give Reason for the Following :

- 5A) Date is an important aspect of a prescription. (2)
- 5B) Absence of disease or infirmity do not necessarily reflect health. (2)
- 5C) Background information of patients required for patient counseling. (2)
- 5D) Lead time is important factor in inventory of medicines in pharmacy. (2)
- 5E) Readability is an essential criteria for patient information leaflets. (2)

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