



**MANIPAL COLLEGE
OF PHARMACEUTICAL SCIENCES**

MANIPAL

(A constituent unit of MAHE, Manipal)

**Manipal Academy of Higher Education
II Year Pharm D Degree Examination- July/August 2021
Subject Code: PPR. 2.1T Pathophysiology**

Date: 03-08-2021

Duration: 2 Hour (Time: 2.30 pm to 4.30 pm)

Max. Marks: 50

Instructions:

- **Answer ALL questions.**
- **Draw diagrams wherever necessary**
- **In each page, students must write class, registration no, name, signature with date**
- **Students should view before writing and press turn in button after uploading answer before due time or close time**

Section A: Long Answer Questions (2 x 10 marks = 20 marks)

1. Describe the etiology and pathogenesis of Chronic Renal Failure
2. Discuss the life cycle of Malaria with the help of a diagram

Section B: Short Answer Questions (6x 5 marks = 30 marks)

3. What is cellular adaptation? Define different types of the cellular adaptation
4. Explain the role of important cell derived chemical mediators of acute inflammation
5. Explain the pathological significance of type-2 hypersensitivity reactions with at least 5 examples
6. Explain the steps involved in tumour metastasis with the help of a neat diagram
7. Discuss the contrasting features of Marasmus and Kwashiorkor
8. Describe the pathophysiology of Asthma

**Manipal College of Pharmaceutical Sciences,
Manipal Academy of Higher Education,
Dept. of Pharmaceutical Biotechnology,**

II Pharm D, Theory Examination, July 2021

Course: Pharmaceutical Microbiology

Time: 2.30 pm - 4.30 pm

Course Code: PBT 2.2 T

Duration: 2 hrs

Date: July 29, 2021

Maximum marks: 50

Instructions: The examination is conducted through MS teams

- 1. On each page, the student has to write Class, Register No. Name, Signature with date**
- 2. The student should view before writing and press turn in button after uploading the answer**

Answer all Questions and Draw relevant neat labelled diagrams

Section A: Long Answer

(2 x 10 = 20 marks)

1. Explain how saturated steam acts as an effective sterilizing agent and discuss the several ways of formation of superheated steam in large sterilizers.
2. Define the term 'immunity' and write in detail about the non-specific defence mechanisms.

Section B: Short Answer

(6x 5 = 30 marks)

3. Explain the influence of the concentration of the disinfectant on the course of the disinfection process.

Contd.....

4. Explain the HIV life cycle, and the diagnostic methods of HIV.
5. Write the procedure of the southern blotting technique.
6. Explain the selection method used for isolating an antibiotic producing microorganism.
7. Explain the IMViC tests used to differentiate the coliform group of microorganisms.
8. Write in detail the microbiological assay by turbidimetric method used for cyanocobalamin.

**MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES, MANIPAL
ACADEMY OF HIGHER EDUCATION MANIPAL
UNIVERSITY EXAMINATION JULY-AUG 2021
SECOND YEAR Pharm D.**

Subject: Pharmacognosy and Phytopharmaceuticals (PCO 2.3T)

Date: 31-07-2021

Timing: 2.30 pm to 4.30 pm

Max. Marks: 50

Remarks: In each page student have to write Class, Register No. Name, Signature with date.

Instructions: Student should view before writing and press turn in button after uploading answer.

Section A: Long Answers

(2x10 Marks=20 marks) 1.

Describe the morphology and microscopy of a flower drug with neat labeled diagrams.

2. Discuss various extrinsic factors affecting the cultivation of crude drugs.

Section B: Short Answers

(6x5Marks=30 marks)

3. Define and discuss various methods of adulteration of crude drugs.

4. Pharmacological classification with its merits and demerits.

5. Explain life cycle of Ergot with labelled diagram.

6. Give the source, method of preparation, chemical constituents and uses of castor oil. (1+2+1+1)

7. Describe Honey with reference to source, methods of preparation and tests for its purity.

8. What are carbohydrates? Give their chemistry and tests for identification.

-----All the Best-----

Reg. No.

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**Manipal Academy of Higher Education
PharmD Second Year Examination, July 2021**

Course Code: PHA 2.4T; Course Title: Pharmacology-1

Date: 27-07-2021

Time : 2.30 pm to 4.30 pm [IST]

Max. Marks: 50

Instructions: Answer ALL questions

Section A: Long Answer Questions (2 × 10 marks = 20 marks)

1. With a neat diagram explain the structure of G-protein coupled receptor. Compare and contrast the signal transduction mechanism of acetylcholine producing contraction of smooth muscles and acetylcholine induced vasodilation. 4+6
2. Classify Oral hypoglycemic agents with examples. Explain the mechanism of action of any two different classes of this.

Section B: Short Answer Questions (6 × 5 marks = 30 marks)

3. With a neat diagram explain the mechanism of action of antidepressant.
4. With a neat diagram molecular mechanism of Morphine. Why Morphine is used in acute left ventricular failure
5. Narrate a situation where you are performing a patient counseling for the prescription involving the combination of amlodipine + atenolol + lisinopril.
6. With a neat diagram explain the adrenergic transmission and drugs that can intervene in this condition.
7. Compare and contrast the pharmacological actions of cardiac glycoside with sympathomimetic drugs.
8. Discuss the pathological roles of serotonin.

"End of question paper"

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Manipal College of Pharmaceutical Sciences
Manipal Academy of Higher Education, Manipal
Second Year Pharm D –Final Examination – July/August 2021
Subject: PPR 2.5T. Community Pharmacy

Date: 07-08-2021

Duration: 2.30 – 4.30pm

Max. Marks: 50

Instructions: Answer ALL questions.**Section A: Long Answer Questions****(2 × 10 marks = 20 marks)**

1. Define purchase and inventory. Describe Economic Order Quantity (EOQ) and perpetual inventory control methods of inventory control.
2. Describe some of the most important and commonly considered factors that contribute to medication non-adherence.

Section B: Short Answer Questions**(4 × 5 marks = 20 marks)**

1. Explain the legal requirements for establishing a community pharmacy.
2. Write three important factors which stimulated the essential medicine concept, as well as the criteria for inclusion of a medicine in the National List of Essential Medicines.
3. What is communicable diseases? Explain causative organism, clinical presentation and prevention of Hepatitis.
4. Explain the causative organism, presentation and prevention of gonorrhoea infection.
5. Describe the pathophysiology of pain and its management.
6. What does the term "health screening service" mean, and why it is important?

“End of question paper”



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Manipal Academy of Higher Education
II Year Pharm D Degree Examination- July/August 2021
Subject Code: PPR. 2.6T Pharmacotherapeutics-I

Date: 05-08-2021

Duration: 2 Hour (Time: 2.30 pm to 4.30 pm)

Max. Marks: 50

Instructions:

- **Answer ALL questions.**
- **Draw diagrams wherever necessary**
- **In each page, students must write class, registration no, name, signature with date**
- **Students should view before writing and press turn in button after uploading answer before due time or close time**

Section A: Long Answer Questions (2 x 10 marks = 20 marks)

1. Explain the management of hypertension based on JNC-8 guidelines
2. Discuss the chronic asthma management in adult and paediatric patients

Section B: Short Answer Questions (6x 5 marks = 30 marks)

3. Discuss the role of statins and fibrates in dyslipidaemia management
4. Draw the treatment algorithm of type 2 diabetes mellitus
5. Classify oral contraceptives and explain the methods of administration of oral contraceptives.
6. Discuss pregnancy categories of medication with examples
7. Give a note on WHO drug use indicators
8. Define rational drug use (RDU) and write the guidelines for rational prescribing of drugs
