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Manipal Academy of Higher Education PharmD Third Year Examination, July/August 2021

Course Code: PHA 3.1T; Course Title: Pharmacology-2

Date: 2/8/2021

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 examples explain different types of DNA damage. Discuss the mechanism of nucleotide excision repair with a neat diagram. Mention few drugs that can cause DNA damage in humans.

4+6

2. Classify cephalosporins with examples. Discuss the pharmacology of third generation cephalosporins

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

- 3. Compare and contrast the site and mechanism of action of loop and thiazide diuretics.
- 4. Explain how apoptotic proteir helps in cell regulation process.
- 5. Narrate a clinical situation where you will indicate the combination of INH+ Rifampicin + Pyrazinamide for more than 6 months.
- 6. Some microbes develop resistance to certain antibacterial agents. Discuss.
- 7. Discuss the metabolic role of folic acid and vitamin B₁₂
- 8. Explain the clinical applications of genetic engineering

"End of question paper"

Manipal College of Pharmaceutical Sciences Manipal Academy of Higher Education, Manipal Third Year PharmD University Examinations (Theory), July 2021

Course Code: PQA3.2T. Course Title: Pharmaceutical Anlysis

Date: 04. 08.2021. Duration: 2 hrs. (2:30 -4:30pm) Max. Marks: 50

Instructions: Answer ALL questions

Long Answer Questions (2 X 10 marks) = 20 Marks

- 1. 1A. Explain the working of HPLC instrument with the help of a schematic diagram. (5 marks)
 - 1B. Explain the principle of "Flame ionization detector" in GC. (5 marks).
- 2. 2A. Explain the principle of glass electrode with the help of necessary equations. (5 marks).
 - 2B. Plot the conductometric titration curve and explain the shape of the titration curve for the titration of a weak acid with a weak base. (5 marks)

Short Answer Questions (6 x 5 marks) = 30 marks

- 3. Enlist and explain the different types of electronic transitions involved in UV/Visible spectroscopy.
- 4. With the help of neat and labelled diagram write a note on Bolometer detector used in IR spectroscopy.
- 5. 5A. How to analyse non-fluorescent compound by fluorimetry? Explain with one representative example. (3Marks)
 - 5B. Write the Larmor equation with the terms involved therein. (2 Marks)
- 6. What is Plasma? Mention the various types of plasma sources in atomic spectroscopy.
- 7. Write a short note on Statistical Process Control (SPC).
- 8. Enlist the difference between Circular Dichroism (CD) and Optical Rotatory Dispersion (ORD).



Manipal Academy of Higher Education Third Year PharmD Degree Examination- July 2021 Subject Code: PPR 3.3T Subject: Pharmacotherapeutics-2

Date: 30-07-2021 Duration: 2 Hour (Time: 2.30 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.

Sec	tion A: Long Answer Questions (2 x 10 marks = 20 marks)	Marks
1.	Discuss pharmacotherapy management of Multi Drug resistance Tuberculosis.	10 KK
2.	Write the RIFLE classification in Acute Kidney Injury (AKI) and explain the various treatment approaches used in the management of AKI.	10 PKS
Sect	ion B: Short Answer Questions (6x 5 marks = 30 marks)	Marks
1.	Define meningitis and encephalitis. Write the treatment regimens for meningitis caused by <i>Streptococcus pneumoniae</i> and <i>Cryptococcus neoformans</i> .	5 PKS
2.	Discuss ACR/EULAR 2010 classification criteria for Rheumatoid arthritis and discuss the role of corticosteroids in the management of same.	
3.	Define the terms: proto-oncogenes, oncogenes, tumor suppressor genes and write the use of the Gompertzian growth curve.	
4.	Enlist various drug class used in management of leukemia and explain any one drug class in detail.	
5.	Explain the phototherapy used in the management of psoriasis	5 PKS
6.	Enlist various clinical manifestation associated with scabies.	5 KK

Manipal Academy of Higher Education, Manipal Manipal College of Pharmaceutical Sciences

PharmD Third Year Annual Examination -Jul 2021

Subject: PMA 3.4T Pharmaceutical Jurisprudence

Duration: 2hours

Date: 28 July 2021

Max. Marks: 50

ANSWER ALL QUESTIONS

Long Answer Questions

2 X 10 Marks

- Q1. What are the qualifications, duties, and powers of Drug Inspectors as per The Drugs and Cosmetics Act?
- Q2. Describe the Code of Ethics for Pharmacists related to his job, trade, profession, and medical profession.

Short Answer Questions

6 X 5 Marks

- Q4. Write the specimen labels for Sch H and Sch G drugs. Add a note on conditions to dispense Sch H1 drugs as per The Drugs and Cosmetics Act.
- Q5. What are the powers given to central Govt to control and regulate as per NDPS Act?
- Q6. Write in details the provisions for 'in bond manufacture' of preparations containing alcohol as per The Medicinal and Toilet Preparations Act.
- Q7. Briefly enumerate recommendations of Chopra Committee.
- Q8. Enlist prohibited and exempted advertisements according to Drugs and Magic Remedies Act.
- Q9. Write about constitution and composition of Pharmacy Council of India. What is term of the President and Vice President of the PCI?

Department of Pharmaceutical Chemistry Manipal College of Pharmaceutical Sciences, MAHE, Manipal

III PharmD University Examinations July 2021 Subject and Subject Code: Medicinal chemistry, PCH 3.5 T

Max. Marks: 50	Time: 2.30pm to 4.30pm	Duration: 2 hrs.	Date: 26-07-21
Instruction: Answer all ques	tions.		
Section A: Long answer que	estions (2 x 10 marks = 20 n	narks)	š
1A. Classify Antimalarial dChloroquine and Mebendazol1B. Outline the synthesis of the i) Metronidazole	e. he following with their speci		e the synthesis o 5M
2A. Classify Antibiotics with i) Chloramphenicol 2B. Write the SAR of Quinology	ii) Chloro tetracycline iii) Ar		5M 5M
Section B: Short answer que	estions (6 x 5 marks = 30 m	arks)	
3A. Write the principle and ap 3B. Classify Antitubercular do	_	_	3M 7H 2M
4. What are sulpha drugs? Gsulpha drugs. Outline the synt			ctural features of 5M
5. What are Antimetabolites? synthesis of Cyclophosphamic		ne structure under each	class. Outline the 5M
5. Explain the mechanism of ε) Captopril ii) Metformin	action of the following drugs iii) Propyl thiouracil iv) Lo		5M
	following compounds ontaining calcium channel bluethoxy benzamide containing		5M
3. Classify Antihypertensive a class.	gents and Antihyperglycemi	c agents and give the m	echanism for each
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MANIPAL ACADEMY OF HIGHER EDUCATION, MANIPAL

Third Year PharmD University Examinations, July/ Aug 2021

Course: PCE 3.6T. Pharmaceutical Formulations

Max. Marks: 50

Date: 06-08-2021

Time: 2:30 – 4:30 pm

Note: Answer All Questions. Draw the diagrams wherever necessary

- 1. Explain Wet granulation method for the preparation of tablets. Mention different Quality Control tests for tablets and explain any ONE test in detail ----- (6+4 Marks)
- 2. Discuss different routes of parenteral administration ---- 10 Marks
- 3. Explain Extraction of gelatin with the help of a flow-chart ---- 5 Marks
- 4. Describe various filling methods for Liquid Orals ---- 5 Marks
- 5. Explain Rotary Die process which is used to manufacture Soft Gelatin Capsules --- 5 Marks
- 6. Add a note on Semisolid bases ---- 5 Marks
- 7. What are different types of transdermal drug delivery systems? Explain any ONE system in detail ---- 5 Marks
- 8. Mention different Sterilization methods and explain any TWO methods in detail ---- 5
 Marks
