

Index number:



UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES
Part 2 - May 2024 2018/2019
Clinical Pharmacology and therapeutics -Paper II

Date: 08.05.2024

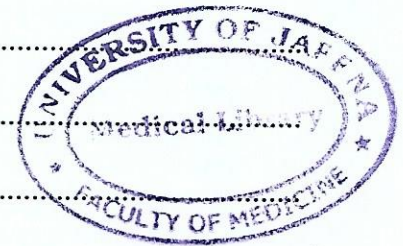
9.00 am to 12.00 noon. (3 hours)

Answer all SIX questions

Write the answers in the given space below each question.

1.

1.1. Explain four different mechanisms for pharmacokinetic drug-drug interaction with examples. (40 marks)





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1.2. Define the following terms

(10 marks)

1.2.1. Adverse drug reaction.



1.2.2. Adverse event.

(10 marks)

1.2.3. Teratogenicity.

(10 marks)

1.3. Briefly describe the advantages of post marketing surveillance.

(30 marks)



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Answer all SIX questions

2. Discuss the pharmacological basis for the use of the following.
 - 2.1. Atropine in the management of organophosphate poisoning.

(30 marks)



The image shows five sets of horizontal dotted lines, each consisting of a single line of dots. These lines are intended for handwriting practice, specifically for tracing and forming the letter 'a'.[illegible]

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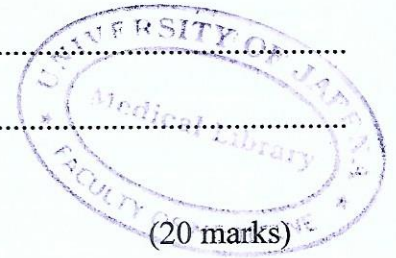
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2.3. Metoclopramide in gastro-oesophageal reflux disease.

(20 marks)

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3.

(10 marks)

A purple oval stamp from the University of the Pacific Medical Library. The text "UNIVERSITY OF THE PACIFIC" is curved along the top inner edge, "Medical Library" is in the center, and "FACULTY OF MEDICINE" is curved along the bottom inner edge. There are small stars on either side of the central text.

(05 marks)

(05 marks)

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(05 marks)

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3.3. Explain the pharmacological basis for

3.3.1. dexamethasone therapy in bacterial meningitis.

(15 marks)

UNIVERSITY OF JALAPA
FACULTY OF MEDICINE

3.3.2. dexamethasone suppression test.

(15 marks)

This image shows a full page of white paper with ten horizontal dashed black lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the entire width of the page. There is no handwriting or other markings on the paper.

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Answer all SIX questions

[illegible]

the following adverse effects (15 m)

(15 marks)

[illegible]

(15 marks)

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3.4.3. Osteoporosis (15 marks)

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Answer all SIX questions
4.

4.1.

(20 marks)



(30 marks)

[illegible]

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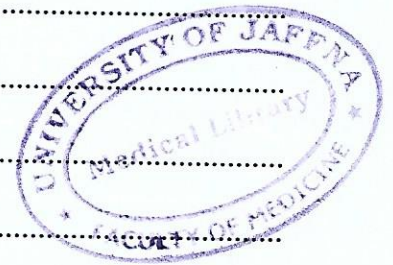
9.00 am to 12.00 noon. (3 hours)

Answer all SIX questions.

4.2.

4.2.1. Discuss the pharmacokinetic properties of lithium.

(20marks)



4.2.2. Discuss the precautions to be taken before starting lithium therapy?

(15 marks)

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4.2.3. List five signs and symptoms of lithium toxicity.

(15 marks)

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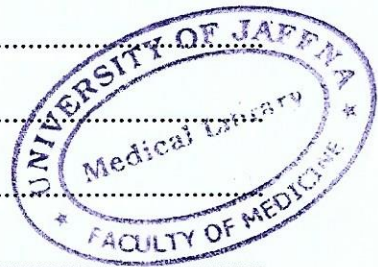
Answer all SIX questions

5.

5.1. Explain the following terms in relation to antibiotic therapy.

5.1.1. Empirical therapy

(10 marks)



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5.1.2. Prophylactic therapy

(10 marks)

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5.2.1. Discuss the principles for antibacterial chemotherapy in bacterial endocarditis.

[illegible]

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Medical Library
FACULTY OF MEDICINE

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6. A 60 year old male presented to the medical clinic with on and off tightening type of retrosternal chest pain for 4 months duration. He develops chest pain every time when he walks around 500m. The pain radiates to the jaw and is relieved by rest. He is a known patient with diabetes for the past 10 years and on metformin 500mg three times daily. He is not following regular clinics but is using metformin regularly. On examination his BMI is 30Kg/m^2 . There are no other significant examination findings.

6.1. Mention the probable diagnosis for the chest pain?

(05 marks)

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6.2. List five (05) investigations that you will order in this patient?

(20 marks)

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6.3. List 4 important medicines you would start after the diagnosis of the condition mentioned in 6.1.

(20 marks)

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6.4. Explain the pharmacological basis for prescribing the medicines mentioned in 6.3.

(30 marks)

This image shows a full page of a worksheet designed for handwriting practice. It features 20 horizontal rows, each consisting of three dashed lines: a top line, a middle line, and a bottom line. These lines are evenly spaced across the entire page to guide letter formation and alignment. The background is plain white, and there are no other markings or text present.

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6.5. After a few months this patient is admitted to emergency unit (EU) with severe retrosternal tightening type chest pain which developed at rest and lasting for more than 30 minutes. His ECG showed ST elevation in V1-4. Blood test has shown elevated Troponin I.

6.5.1. List five (05) medicines that should be given during the emergency management except Oxygen. Mention the dose and route of administration of each medicine.

(25 marks)

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