

Index number:



UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES PART 2- Jan
2026

Academic year 2020/ 2021

Clinical Pharmacology and Therapeutics-Paper II

Date: 07.01.2026

9.00 am to 12.00 pm (03 hours)

Answer all SIX questions

Write the answers in the given space below each question.

1.

1.1. Explain the term

1.1.1. drug-drug interaction.

(10 marks)

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1.1.2. drug-food interaction.

(10 marks)

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1.2. Name five (05) molecular sites for pharmacodynamic interactions and give one (01) example for each of them.

(30 marks)

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Answer all SIX questions

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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[illegible]

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2.

2.1. Explain the following terms with examples

2.1.1. Superinfection

(10 marks)

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2.1.2. Opportunistic infection

(10 marks)

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2.2. Write the antibiotic of choice for the chemoprophylaxis of following conditions and briefly describe the rationale of using them.

2.2.1. Rheumatic fever

(15 marks)

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2.2.2. Dental extraction in patient with valvular heart disease (15 marks)

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2.3.

2.3.1. Explain the advantages of giving single daily dose over divided dose of gentamicin. (15 marks)

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2.3.2. Describe the adverse effects of gentamicin. (15 marks)

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9.00 am to 12.00 pm (03 hours)

This image shows a full page of white paper with horizontal dashed lines, typical of primary school writing paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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3.3. Ondansetron is an effective antiemetic in cancer chemotherapy. (20 marks)

[illegible]

3.4. Lactulose in hepatic encephalopathy (30 marks)

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This image shows a full page of a handwriting practice worksheet. It features approximately 20 horizontal rows, each defined by two parallel dotted lines. The lines are evenly spaced and extend across the width of the page, providing a guide for letter height and placement. There is no text or other markings on the page.

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4.

- 4.1. Name the different classes of oral hypoglycaemic agents and give one (01) example for each of them. (35 marks)

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[illegible]

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[illegible]

4.3. Discuss the role of non-oral antidiabetic agents in the treatment of type 2 diabetes mellitus. (15 marks)

[illegible]

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Answer all SIX questions

- 5.1.

- 5.1.1. Mention four (04) antiepileptic medicines used for generalized tonic-clonic seizure and discuss how they control the seizure. (20 marks)

This image shows a full page of a handwriting practice worksheet. It consists of multiple sets of three horizontal dashed lines spaced evenly down the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.

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[illegible]

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5.1.4. While on medication, the patient was admitted to the emergency department with recurrent seizures occurring for a 30-minute period, without regaining consciousness between episodes. Outline the pharmacological management of this condition. (25 marks)

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5.2. List four (04) non-epileptic conditions in which antiepileptic medicines are indicated,
with one example for each. (20 marks)

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6. A 60 – year- old male presents with a history of worsening shortness of breath for two weeks duration. He is a known patient with type 2 diabetes mellitus, hypertension and coronary heart disease. His regular medications are aspirin, atorvastatin, metoprolol, enalapril and premixed human insulin. Clinical examination reveals elevated JVP, bilateral ankle oedema and fine basal crepitation. His SpO₂-92% on air, pulse rate -110 bpm and blood pressure -120/90 mmHg. 2D echo cardiogram reveals an ejection fraction of 35% with global hypokinesia. Troponin I is negative.

- 6.1. What is the likely diagnosis for the above presentation? (10 Marks)

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- 6.2. Name the one (01) important medication that should be given immediately for symptomatic relief of this patient. Mention the route of administration. (10 marks)

Medication

Route of administration.....

- 6.3. Name the two (02) group / class of medications with example that you will add to his treatment to improve the survival and reduce his current symptoms. (10 marks)

Medication	Example
i.	
ii.	

11



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6.4. Explain the pharmacological basis and rationale for using the group of medications mentioned in 6.3. (30 marks)

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6.5. Discuss the measures that you would take to monitor the adverse effects of medications you mentioned in 6.3. (20 marks)

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6.6. List four (04) group/class of medications that worsen the above condition mentioned in 6.1. (20 marks)

- i.
- ii.
- iii.
- iv.