Index number:

UNIVERSITY OF JAFFNA, SRI LANKA
SECOND EXAMINATION FOR MEDICAL DEGREES PART 2 - April 2025
Academic year 2019/ 2020
Clinical Pharmacology and Therapeutics-Paper II

Date: 30.04.2025 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. Discuss the effects of different categories of receptor agonists and antagonists with the help of dose-response curves. (40 marks)

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Answer all SIX questions

1.2. List the four (04) main types of receptors and name one (01) agonist and one (01) antagonist for each type. (30 marks)

I. .....

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II. .....

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III. .....

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IV. .....

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1.3. Name other three (03) protein targets (other than receptors) for drug action and describe their mechanisms of action with examples. (30 marks)

I. .....

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II. .....

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III. .....

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2.

2.1. Describe the treatment regimen for a newly diagnosed patient with pulmonary tuberculosis. (20 marks)

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2.2. Discuss the pharmacological basis for using above regimen in the treatment of tuberculosis. (25 marks)

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2.3. Mention two (02) important adverse effects of each of the medicines mentioned in 2.1.

(20 marks)

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2.4. Mention the precautions to be taken when giving antituberculosis treatment to a pregnant mother diagnosed with pulmonary tuberculosis at 14 weeks of pregnancy.

(10 marks)

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2.5. Describe the management of a neonate born to a mother who is on tuberculosis treatment for pulmonary tuberculosis for last 2 months. (25 marks)

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3.

3.1. Discuss the general management of poisoning. (35 marks)

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3.2. A 24-year-old lady was brought to the emergency department with the history of ingestion of 50 paracetamol tablets. Describe the specific management of paracetamol overdose in this patient. (30 marks)

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3.3. A 55-year-old farmer was admitted to the emergency department with the history of snake envenomation. His whole blood clotting test was > 20minutes. Discuss the management of snake envenomation in this patient. (35 marks)

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Answer all SIX questions

4.

4.1. List three (03) groups of medications that are used to treat anxiety disorders. Give one (01) example for each group. (15 marks)

I. .....

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II. .....

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III. .....

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4.2. Describe the mechanism for anxiolytic action of each group mentioned in 4.1 (30 marks)

I. .....

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II. .....

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III. .....

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4.3. Mention four (04) adverse effects of each group mentioned in 4.1. (30 marks)

I. Group: .....

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II. Group: .....

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III. Group: .....

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4.4. Name five (05) different types of anxiety disorders and mention the drug of choice for each of them. (25 marks)

I. .....

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II. .....

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III. .....

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IV. .....

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V. .....

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5. A 52-year-old man is on warfarin for atrial fibrillation with the target International Normalised Ratio (INR) of 2 to 3. For the past six months his INR has been within the target range with warfarin 8mg once daily. His INR at the last clinic review is 1.5 despite regular intake of warfarin.

5.1. Mention the potential risk of having INR of 1.5 in this patient. (05 marks)

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5.2. Discuss the probable causes for sub-therapeutic INR observed in this patient. (30 marks)

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5.3. This patient has suffered a transient ischaemic attack. Two months later he has undergone a major elective surgery. Describe the perioperative anticoagulant therapy of this patient in this circumstance. (25 marks)

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5.4: If this patient complains of recurrent episodes of gum bleeding when brushing teeth. describe how would you manage it? (20 marks)

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5.5. Name two (02) alternative oral anticoagulants for warfarin and mention their advantages over warfarin. (20 marks)

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6. A 26-year-old previously healthy, unmarried female presented to the medical clinic with a 3-month history of weight loss, excessive sweating, palpitations, and irregular menstrual periods. On examination, she was underweight and afebrile. Her blood pressure was 120/80 mmHg, with a heart rate of 115 bpm. Lung auscultation was unremarkable. She also had bilateral exophthalmos, diffuse thyroid enlargement, and clubbing.

6.1. Mention the clinical diagnosis. (05 marks)

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6.2. List three (03) investigations to confirm the diagnosis. (15 marks)

I. .....

II. .....

III. .....

6.3. List two (02) medications that you will initiate on this patient and explain the reasons for starting these medications. (20 marks)

I. Medication: .....

Reason:.....

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II. Medication: .....

Reason: .....

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6.4. List two blood investigations you would do before initiating the above-mentioned medications. Give reasons. (10 marks)

I. Investigation: .....

Reason: .....

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II. Investigation: .....

Reason: .....

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6.5. She was admitted to the hospital again two months later with fever, diarrhea, SOB, palpitations, and bilateral ankle swelling. On further questioning, she admitted that she has defaulted the treatment a month ago. On examination, she was febrile and agitated. Auscultation of the lungs revealed bilateral basal fine crepitations. Her blood pressure was 90/60 mmHg, and pulse was irregularly irregular with a rate of 130 beats per minute.

6.5.1. Mention the diagnosis of the above presentation. (05 marks)

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6.5.2. Give the reason for the cardiovascular clinical manifestations in this patient. (05 marks)

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6.5.3. Describe the management of this patient during the acute phase? (40 marks)

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