

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH
(A Deemed to be University)
MBBS Phase II Examination August 2025

Time: 150 Minutes

Max Marks: 80 Marks

Pharmacology Paper I

QP CODE: C2061

Your answer should be specific to the question asked

Draw neat labelled diagrams wherever necessary

Long Essay

2 X 10 = 20 Marks

1. Explain the terms bioavailability with patient factors, enzyme induction and inhibition with their clinical significance (6+2+2)
2. A male patient aged 48 years with history of diabetes and hypertension was on irregular treatment. He had complained of severe pain in the epigastric region radiating to left arm and left jaw and was brought to the casualty. On investigation, his ECG reveals ST segment elevation and Q waves. (1+4+5)
 - a. Write the diagnosis.
 - b. Write the treatment for the above diagnosis.
 - c. Explain the rationale for the use of drugs mentioned by you.

Short Essay

12 X 5 = 60 Marks

3. Explain mechanism of action and use of pralidoxime and atropine (2.5+2.5)
4. Explain uses of adrenaline (5)
5. List the differences between succinylcholine and pancuronium (5)
6. Explain mechanism of action of lignocaine and explain the basis for combining adrenaline with lignocaine (2+3)
7. List drugs used in hyperlipidaemia. Explain mechanism of action and adverse effects of fibrates (2+1.5+1.5)
8. Enumerate the potassium sparing and osmotic diuretics. Explain their clinical uses (2+3)
9. Explain the mechanism of action, uses and adverse effects of alteplase (2+2+1)
10. Explain the mechanism of action and list uses and adverse effects of sodium valproate (1.5+2+1.5)
11. Explain the uses of benzodiazepines and write the treatment for diazepam overdose (3+2)
12. Explain the mechanism of action and contraindications to morphine (2+3)
13. Mention the drugs used as preanesthetic medication and explain their rationale (5)
14. Define pity, sympathy and compassion. Explain the significance of communication with family member of a sick patient (3+2)

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Time: 150 Minutes

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Pharmacology Paper II

QP CODE: C2062

Your answer should be specific to the question asked

Draw neat labelled diagrams wherever necessary

Long Essay

$2 \times 10 = 20 \text{ Marks}$

1. A 30-year-old female had come to the Surgery outpatient department with the complaints of swelling in the neck. She had complained of restlessness, excessive sweating, intolerance to hot weather and irregular menstrual cycles with excessive bleeding. She gave history of weight loss inspite of good appetite. On examination, pulse was 98 beats/min, blood pressure was 140/90mmHg, respiratory rate was 35 cycles/min, temperature was 101° F and pallor was present. On examination of swelling, it was firm, non-tender, pulsatile and mobile. Laboratory investigations revealed haemoglobin was 9gm% and serum TSH levels were 0.05 μ U/ml. (1+3+6)
 - a. What is your probable diagnosis?
 - b. Enumerate the drugs used to treat this condition.
 - c. Explain mechanism of action and adverse effects of any 2 groups of drugs.
2. List the beta lactam antibiotics. Explain the mechanism of action, uses and adverse effects of third generation cephalosporins (4+2+2+2)

Short Essay

$12 \times 5 = 60 \text{ Marks}$

3. Explain the absolute and relative contraindications to oral contraceptive pill (2.5+2.5)
4. Mention three drugs used for induction of labour. Explain their mechanism of action (1.5+3.5)
5. Explain the mechanism of action, uses and adverse effects of ciprofloxacin (2+2+1)
6. Explain the mechanism of action, uses and adverse effects of erythromycin (2+2+1)
7. Explain the mechanism of action, therapeutic uses and adverse effects of quinine (2+2+1)
8. Explain the mechanism of action, therapeutic uses and adverse effects of albendazole (2+2+1)
9. Explain mechanism of action, uses and adverse effects of loperamide (2+2+1)
10. Explain the mechanism of action and uses of theophylline. Write treatment of theophylline overdose (2+2+1)
11. Explain the mechanism of action, uses and adverse effects of selective cyclooxygenase - 2 (COX-2) inhibitors (1.5+2+1.5)
12. Explain the mechanism of action, uses and adverse effects of tacrolimus (2+2+1)
13. Mention five nutritional supplements with one use for each (1+1+1+1+1)
14. Explain how you will convince patient and relatives for required investigations (5)