

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH

(A Deemed to be University)

MBBS Phase II Supplementary Examination October 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. List routes of drug excretion with examples, explain the various factors affecting major routes of excretion of drugs (4+3+3)
2. A female patient aged 25 years was brought to the casualty with history of consumption of some compound. On examination, she was disoriented, had difficulty in breathing, diameter of pupil was reduced and eyes were filled with tears. She had difficulty in speaking and swallowing. She had passed urine and stools involuntarily. Her pulse was 48 beats per min, blood pressure was 94/54 mmHg and respiratory rate was 42 cycles per min. (1+1+4+4)
 - a. What is the clinical diagnosis?
 - b. How do you confirm your diagnosis?
 - c. Explain the effects of these compounds on the various systems?
 - d. Write the treatment for your diagnosis and provide the rationale for the use of the drugs in treating this condition

Short Essay

12 X 5 = 60 Marks

3. Explain the mechanism of action, uses and contraindications to propranolol (1+2+2)
4. Explain mechanism of action of tizanidine, baclofen and dantrolene with their uses (1.5+2+1.5)
5. List the calcium channel blockers. Explain their uses and adverse effects (1+2+2)
6. Enumerate the class II antiarrhythmics, explain the mechanism of action of any one drug and its uses (2+2+1)
7. List one drug from different groups used in hyperlipidaemia. Explain mechanism of action and adverse effects of any one drug (2+1.5+1.5)
8. Explain the mechanism of action, uses and adverse effects of frusemide (1+2+2)
9. Explain the mechanism of action, uses and adverse effects of heparin (2+2+1)
10. Explain the mechanism of action and enumerate the uses and adverse effects of phenytoin (1.5+1.5+2)
11. Explain mechanism of action, uses and adverse effects of diazepam (2+2+1)
12. List the contraindications of opioids and explain treatment of morphine overdose (2.5+2.5)
13. Explain mechanism of action of drugs used in parkinsonism (5)
14. Define empathy, apathy and sympathy. Explain three components of empathy (3+2)

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Time: 150 Minutes

Max Marks: 80 Marks

Pharmacology Paper II
QP CODE: C2062 – 2022 batch

Your answer should be specific to the question asked
Draw neat labelled diagrams wherever necessary

Long Essay

2 X 10 = 20 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 0.05µU/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 tetracyclines. Explain the mechanism of action, therapeutic uses and adverse effects of tetracycline (2+2+4+2)

Short Essay

12 X 5 = 60 Marks

3. Explain mechanism of action, uses and adverse effects of glimepiride (2+1+2)
4. List the uses and adverse effects of methylprednisolone (2.5+2.5)
5. Explain the advantages and disadvantages of antimicrobial combinations with examples (2.5+2.5)
6. Explain the mechanism of action, uses and adverse effects of amoxicillin (2+2+1)
7. Explain the mechanism of action, uses and adverse effects of dapsone (2+2+1)
8. Explain the mechanism of action, therapeutic uses and adverse effects of artesunate (2+2+1)
9. Explain the mechanism of action, uses and adverse effects of metronidazole (2+2+1)
10. Explain the mechanism of action, uses and adverse effects of rabeprazole (2+2+1)
11. Explain the mechanism of action, uses and adverse effects of theophylline (2+2+1)
12. List first generation antihistaminics, write their uses and adverse effects (2+2+1)
13. Explain the mechanism of action, uses and adverse effects of sirolimus (2+2+1)
14. Explain the mechanism of action, uses and adverse effects of fluconazole (2+2+1)

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MBBS Phase II Supplementary Examination October 2025

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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 X 10 = 20 Marks

1. Classify drugs used in hyperthyroidism. Explain mechanism of action, uses and adverse effects of propylthiouracil (4+2+2+2)
2. A 28-year-old female patient had come with history of intermittent fever associated with chills and rigor, headache and myalgia for 4 days. On examination patient was febrile, pulse was 108 beats per min, blood pressure was 120/80 mm Hg. On abdominal examination spleen was palpable. Blood was sent for peripheral smear examination. (1+3+2+4)
 - a. Write the clinical diagnosis
 - b. List the drugs used in the treatment of the above condition
 - c. Explain any one treatment schedule for the above condition
 - d. Explain mechanism of action and adverse effects of any two drugs from different category.

Short Essay

12 X 5 = 60 Marks

3. Explain mechanism of action, uses and adverse effects of glimepiride (2+1+2)
4. List uterine stimulants. Explain their mechanism of action and uses (1+4)
5. Explain the mechanism of action, uses and adverse effects of chloramphenicol (2+2+1)
6. Explain the mechanism of action, uses and adverse effects of erythromycin (2+2+1)
7. Explain the mechanism of action, uses and adverse effects of rifampicin (1+3+1)
8. Explain the mechanism of action, uses and adverse effects of acyclovir (2+2+1)
9. Mention four drugs used to treat diarrhoea and explain their mechanism of action (2+3)
10. Explain the mechanism of action, uses and adverse effects of theophylline (2+2+1)
11. List first generation anti histaminics. Write their uses and adverse effects (2+2+1)
12. Explain the mechanism of action, uses and adverse effects of sirolimus (2+2+1)
13. Explain the mechanism of action, uses and adverse effects of fluconazole (2+2+1)
14. Explain the ways by which doctor should communicate to elicit good history (5)

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M.B.B. S Phase-II Supplementary Examination October 2025

Time:3 hours

Max Marks:100

PHARMACOLOGY- PAPER I

Your answer should be specific to the question asked

Draw neat and labeled diagrams wherever necessary

LONG ESSAY

2 X 10 = 20 Marks

1. Enumerate the drugs used in epilepsy. Explain the mechanism of action of phenytoin and gabapentin with 2 uses for each (4+3+3)
2. Classify drugs used in hypertension. Explain mechanism of action, uses and adverse effects of ramipril (4+2+2+2)

SHORT ESSAY

10 X 5 = 50 Marks

3. Explain the mechanism of action, uses and adverse effects of pethidine (2+2+1)
4. Write the differences between frusemide and mannitol (5)
5. Mention fixed dose combinations with the advantages and disadvantages (1+2+2)
6. List five differences between heparin and warfarin (5)
7. Explain the clinical features of atropine poisoning and write the management (2+3)
8. Enumerate cardioselective beta blockers. List the clinical uses and adverse effects (1+2+2)
9. Explain the mechanism of action, uses and adverse effects of tenecteplase (2+2+1)
10. Define volume of distribution and plasma half-life. Explain clinical significance of volume of distribution (1+1+3)
11. Explain mechanism of action, uses and drug interactions of sodium valproate (2+2+1)
12. Enumerate the class II antiarrhythmics, explain the mechanism of action of any one drug and its uses (2+2+1)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Mention the dose dependant actions of dopamine in the peripheral nervous system
14. List three uses and three adverse effects of amlodipine
15. Explain mechanism of action and use of colchicine
16. Mention two drug releasing implants with one use for each
17. List three direct thrombin inhibitors
18. Explain the mechanism of action and one use of obidoxime
19. List three uses and three specific adverse effects of morphine
20. Define Pharmacovigilance, rechallenge and dechallenge
21. Write three advantages of alteplase
22. Explain mechanism of action and one use of tolvaptan

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M.B.B. S Phase-II Supplementary Examination October 2025

Time:3 hours

Max Marks:100

PHARMACOLOGY- PAPER II

Your answer should be specific to the question asked

Draw neat and labeled diagrams wherever necessary

LONG ESSAY

2 X 10 = 20 Marks

1. List drugs used in viral infections. Explain the mechanism of action and uses of acyclovir and nevirapine (4+3+3)
2. Classify oral antidiabetic drugs. Explain mechanism of action of any three drugs from different groups (4+6)

SHORT ESSAY

10 X 5 = 50 Marks

3. Explain the mechanism of action, uses and adverse effects of isoniazide (2+1.5+1.5)
4. Explain the mechanism of action, uses and adverse effects of zoledronate (2+2+1)
5. Mention three newer drugs used in delayed type of chemotherapy induced vomiting and explain their mechanism of action (2+3)
6. Explain the mechanism of action and uses of theophylline. Write treatment of theophylline overdose (2+2+1)
7. Explain the uses and adverse effects of cyclosporine (3+2)
8. Explain the therapeutic uses of prostaglandin analogues (5)
9. Explain the mechanism of action, uses and adverse effects of second generation cephalosporins (2+2+1)
10. Mention the antacids. Explain the rationale for combining two antacids. Write the limitations of antacids (1.5+2+1.5)
11. List the uses and adverse effects of methylprednisolone (2.5+2.5)
12. Explain the treatment of thyroid storm with the rationale for the use of each drug (2.5+2.5)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Explain mechanism of action and one use for sitagliptin.
14. Define superinfection. Mention the treatment of two superinfections.
15. Explain the vaccination schedule for hepatitis B.
16. Mention three non diarrhoeal uses of oral rehydration therapy.
17. List three drugs used in acute attack of migraine.
18. Mention two mast cell stabilizers, their route of administration and one use
19. List three tocolytic agents and write their mechanism of action.
20. Explain mechanism of action and two uses of erythromycin.
21. Explain three uses of ranitidine
22. Explain the mechanism of action and two uses of dapsons.