

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
**(A DEEMED TO BE UNIVERSITY)**

**M.B.B. S Phase-II Supplementary Examination April/May 2025**

**Time:3 hours**

**Max Marks:100**

**PHARMACOLOGY- PAPER 1**

*Your answer should be specific to the question asked*

*Draw neat and labeled diagrams wherever necessary*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Explain uses and contraindications to morphine. Mention treatment of morphine overdose (3+4+3)
2. Define volume of distribution, plasma half-life and order of kinetics with clinical significance and examples (3+3+4)

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Explain the uses and adverse effects of sodium valproate and gabapentin (3+2)
4. List the advantages and disadvantages of subcutaneous route and intramuscular route of drug administration with examples (2.5+2.5)
5. List the drugs used in myasthenia gravis with the rationale for their use and explain edrophonium test (4+1)
6. Explain the mechanism of action and adverse effects of cardiac glycosides (2+3)
7. Explain the mechanism of action, uses and adverse effects of tenecteplase (2+2+1)
8. Enumerate cardioselective beta blockers. List the clinical uses and adverse effects (1+2+2)
9. 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)
10. Explain five drug interactions with clinical significance (5)
11. Explain mechanism of action, uses and adverse effects of diazepam (1.5+2+1.5)
12. Explain the mechanism of action, uses and adverse effects of osmotic diuretics (1+2+2)

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. Explain edrophonium test and its importance
14. List three parenteral iron preparations and write three indications
15. Mention three drugs used to treat drug induced parkinsonism
16. Explain the rationale for combining vasodilator with a beta blocker
17. Mention three drugs from different groups contraindicated in pregnancy and mention their specific consequences
18. Explain the basis for combining adrenaline with lignocaine
19. List three differences between normal saline and dextran
20. Explain mechanism of action, write one use and one specific adverse effect of hydrochlorothiazide
21. Mention three drugs which should not be combined with succinylcholine
22. Define prodrug with two examples.

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**PHARMACOLOGY- PAPER 2**

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*Draw neat and labeled diagrams wherever necessary*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Classify drugs used in Diabetes Mellitus. Explain mechanism of action, uses and adverse effects of insulin (4+2+2+2)
2. Classify beta lactam antibiotics. Explain the mechanism of action, uses and adverse effects of penicillin G (4+2+2+2)

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Explain mechanism of action uses and adverse effects of pioglitazone (2+1.5+1.5)
4. Explain the mechanism of action, uses and adverse effects of cisplatin (2+2+1)
5. Explain the uses and adverse effects of cyclosporine (3+2)
6. Explain mechanism of action, uses and adverse effects of cetirizine (2+2+1)
7. Mention the antacids. Explain the rationale for combining two antacids. Write the limitations of antacids (1.5+2+1.5)
8. Explain the mechanism of action of any three group of drugs used in bronchial asthma. Write the instructions for the use of metered dose inhaler (3+2)
9. List three nonnucleoside reverse transcriptase inhibitors (NNRTIs) and explain their uses and adverse effects (1.5+2+1.5)
10. Explain mechanism of action, uses and adverse effects of selective estrogen receptor modulators (2+2+1)
11. Write the composition of oral rehydration solution (ORS) and explain the rationale for each constituent (2+3)
12. Explain differences between propylthiouracil and carbimazole (5)

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. List three adverse effects and three contraindications to the use of prednisolone
14. Mention three drugs from different categories used in treatment of ulcerative colitis
15. Explain the mechanism of action and write two uses of imipenem
16. Explain mechanism of action and two uses of Bacilli Calmette Guerin (BCG)
17. Mention three beta-2 adrenergic receptor agonists used in treatment of bronchial asthma.
18. List three drugs used in acute attack of migraine
19. Explain mechanism of action and list one use and one adverse effect of propylthiouracil.
20. List three antimicrobial agents obtained from fungi and mention one use for each
21. Mention three drugs from different group used in vomiting due to anticancer drugs
22. List two aromatase inhibitors and write two uses.