

**Sri Devaraj Urs Academy of Higher Education and Research**

(Deemed to be University under section 3 of UGC Act)

MBBS PHASE - II EXAMINATION FEBRUARY 2022

Date : 14-02-2022

**Pharmacology Paper - I***Your answer should be specific to the question asked  
Draw neat labeled diagrams wherever necessary*

Time : 150 Minutes

MaxMarks : 80 Marks

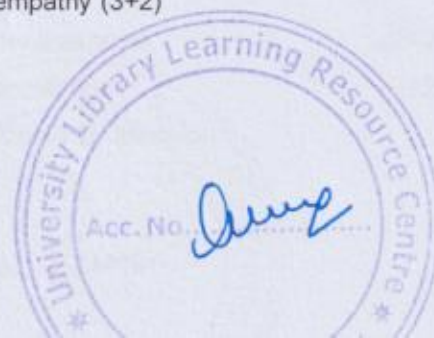
**Long Essay****10 × 2 = 20 Marks**

1. A male patient aged 50 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.
  - a. State the diagnosis.
  - b. Write the treatment for the above diagnosis.
  - c. Explain the rationale for the use of drugs mentioned by you. (1+4+5)
2. List drugs used as pre-anaesthetic medication. Explain the basis for the use of each drug

(2+2+2+2+2)

**Short Essay****5 × 12 = 60 Marks**

3. Explain the advantages and disadvantages of intravenous over oral route of administration with example (2.5+2.5)
4. Explain the enzyme induction and inhibition with their clinical significance (2.5+2.5)
5. Explain mechanism of action and use of pralidoxime and atropine (2.5+2.5)
6. Explain the mechanism of action, uses and adverse effects of alpha blockers (1+2+2)
7. Explain the mechanism of action, uses and adverse effects of succinylcholine (1+2+2)
8. Explain five different techniques of bupivacaine administration with one procedure performed for each technique
9. Explain the uses and adverse effects of calcium channel blockers (3+2)
10. Mention three potassium sparing diuretics and explain their mechanism of action (1.5+3.5)
11. Enumerate the clinical uses and limitations of crystalloids and colloids (3+2)
12. Explain the mechanism of action and uses of morphine (2+3)
13. Explain treatment with rationale of each drug used in methyl alcohol poisoning
14. Define empathy, apathy and sympathy. Explain three components of empathy (3+2)



# Sri Devaraj Urs Academy of Higher Education and Research

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Date: 15-02-2022

## MBBS PHASE - II EXAMINATION FEBRUARY 2022

### PHARMACOLOGY PAPER - II

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

Time: 150 Minutes

Max Marks : 80 Marks

#### Long Essay

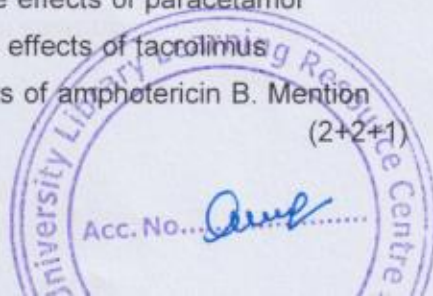
10 × 2 = 20 Marks

1. Classify oral antidiabetic drugs. Write the mechanism of action, uses and adverse effects of metformin (4+2+2+2)
2. A female patient aged 40 years was brought to Medicine department and gave history of cough with expectoration, fever in the evenings and tiredness for the past 2 weeks. She also gave history that her husband was treated for similar symptoms one year back and recovered. On probing she did not have past history of such symptoms. On examination breath sounds were decreased on left side and her weight was 60kg. (1+1+4+4)
  - a. Write two specific investigations required in this patient which will help in diagnosis
  - b. Write the clinical diagnosis
  - c. Enumerate the drugs with dosage schedule for this patient
  - d. Explain the mechanism of action of any two drugs mentioned in question 'c' and write their specific adverse effects

#### Short Essay

5 × 12 = 60 Marks

3. Mention thyroid preparations. Explain the treatment of myxoedema coma with the rationale for use of each drug (1+4)
4. List the uses and adverse effects of betamethasone (2.5+2.5)
5. Explain mechanism of action, uses and adverse effects of ofloxacin (2+2+1)
6. Explain the mechanism of action, uses and adverse effects of cotrimoxazole (2+2+1)
7. List three nonnucleoside reverse transcriptase inhibitors (NNRTIs) and explain their uses and adverse effects (1.5+2+1.5)
8. Explain the mechanism of action, therapeutic uses and adverse effects of mebendazole (2+2+1)
9. Explain the mechanism of action, uses and adverse effects of cyclophosphamide (2+2+1)
10. Explain the mechanism of action, uses and adverse effects of pantoprazole (2+2+1)
11. List four drugs from different groups used in the prophylaxis of bronchial asthma and explain their mechanism of action (1+4)
12. Explain the mechanism of action, uses and adverse effects of paracetamol (2+2+1)
13. Explain the mechanism of action, uses and adverse effects of tacrolimus (2+2+1)
14. Explain the mechanism of action and adverse effects of amphotericin B. Mention the advantages of liposomal amphotericin B (2+2+1)





Question Paper Code:U2061

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**M.B.B.S Phase-II Examination February 2022**

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. Classify non steroidal antiinflammatory drugs (NSAIDs). Explain the mechanism of action , uses and adverse effects of paracetamol (4+2+2+2)
2. List drugs used in hypertension. Explain mechanism of action, uses and adverse effects of lisinopril (4+2+2+2)

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Enumerate cardioselective beta blockers. List the clinical uses and adverse effects (1+2+2)
4. Explain the differences between physostigmine and neostigmine (5)
5. Explain mechanism of action, uses and adverse effects of amitriptyline (1.5+2+1.5)
6. Explain the mechanism of action, uses and adverse effects of nitrates (1.5+2+1.5)
7. List the advantages and disadvantages of subcutaneous route and intramuscular route of drug administration with examples (2.5+2.5)
8. List three drugs from different groups used in hyperlipidaemia and write their uses and adverse effects (1.5+1.5+2)
9. Explain the mechanism of action, uses and adverse effects of pancuronium (1+2+2)
10. Define volume of distribution and plasma half-life. Explain clinical significance of volume of distribution (1+1+3)
11. Explain the mechanism of action, uses and adverse effects of frusemide (1+2+2)
12. Explain the mechanism of action, uses and adverse effects of phenytoin. (1.5+2+1.5)

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. Define tachyphylaxis, toxicity and teratogenicity with one example for each
14. Mention three drugs which act through intracellular/nuclear receptor
15. Explain mechanism of action of bupivacaine and mention two techniques of administration
16. Explain mechanism of action, one use and one adverse effect of adenosine
17. Explain physiological antagonism with one example.
18. List three oral iron preparations and write three adverse effects
19. Mention three low molecular weight heparins and write three advantages over heparin
20. Write three advantages of alteplase
21. Mention three drugs of abuse and explain deaddiction measures
22. Explain mechanism of action of digoxin.



Question Paper Code:U2062

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**M.B.B.S Phase-II Examination February 2022**

Time:3 hours

Max Marks:100

**PHARMACOLOGY- PAPER 2**

*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 tuberculosis. Explain mechanism of action, uses and adverse effects of rifampicin (4+2+2+2)
2. Classify drugs used in hyperthyroidism. Explain mechanism of action of propylthiouracil and radioactive iodine. List advantages of radioactive iodine (4+2+2+2)

**SHORT ESSAY**

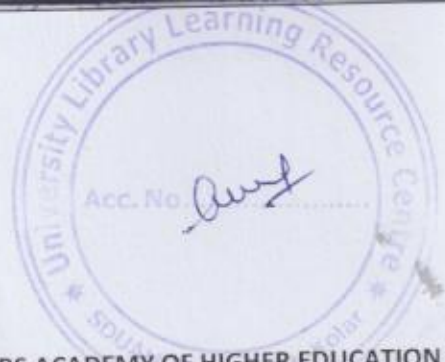
**10 X 5 = 50 Marks**

3. Explain mechanism of action and list three clinically used sulfonamides with one use for each (2+3)
4. Explain the mechanism of action, therapeutic uses and adverse effects of chloroquine. (2+2+1)
5. Explain the uses and adverse effects of bisphosphonates (3+2)
6. Explain the mechanism of action, uses and adverse effects of gentamicin (2+2+1)
7. Explain the mechanism of action, uses and adverse effects of insulin (1.5+2+1.5)
8. Explain the mechanism of action, uses and adverse effects of omeprazole. (1.5+2+1.5)
9. Explain the mechanism of action, uses and adverse effects of cetirizine. (1.5+2+1.5)
10. List the therapeutic uses and adverse effects of tetracyclines (3+2)
11. List the uses and adverse effects of prednisolone (2.5+2.5)
12. Explain the mechanism of action and uses of theophylline. Write treatment of theophylline overdose (2+2+1)

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. Mention three uses of acyclovir.
14. Mention three uses of albendazole.
15. Mention three drugs used in medical termination of pregnancy with their route of administration
16. Mention three antifungal agents of different groups with one clinical use for each
17. Explain mechanism of action and write one use of clomiphene citrate.
18. Mention three laxatives and write three uses.
19. Mention three chelating agents
20. Mention three uses of metronidazole.
21. List three drugs from different group used in vomiting with their mechanism of action
22. Mention three adverse effects of hormonal contraceptives.



Question Paper Code: RS111

**SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

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**M.B.B.S Phase-II Examination February 2022**

Max Marks: 100

Time: 3 hours

**PHARMACOLOGY- PAPER 1**

*Your answer should be specific to the question asked  
Draw neat and labeled diagrams wherever necessary*

**LONG ESSAY ( Answer any 2 )**

**2 X 10 = 20 Marks**

1. List drugs used in schizophrenia. Explain mechanism of action, uses and adverse effects of haloperidol (4+2+2+2)
2. Enumerate drugs used in congestive cardiac failure. Explain mechanism of action and adverse effects of digoxin (4+3+3)
3. Classify anticholinergic drugs. Explain uses and adverse effects of atropine. (4+3+3)

**SHORT ESSAY ( Answer any 10 )**

**10 X 5 = 50 Marks**

4. Explain the mechanism of action and list uses and adverse effects of sodium valproate (1.5+2+1.5)
5. Explain the mechanism of action, uses and adverse effects of amiodarone (2+2+1)
6. Explain the mechanism of action, uses and contraindications to propranolol (1+2+2)
7. List the advantages and disadvantages of subcutaneous route and intramuscular route of drug administration with examples (2.5+2.5)
8. Explain the uses of folic acid and folinic acid (5)
9. Explain types of drug antagonism with examples (5)
10. Explain the mechanism of action, uses and adverse effects of succinylcholine (1+2+2)
11. Explain the mechanism of action, uses and adverse effects of nitrates (1.5+2+1.5)
12. Explain the uses and contraindications to morphine (2.5+2.5)
13. Enumerate three categories of drugs used in gout and explain their mechanism of action (1+1.5+1.5+1)
14. Explain orders of kinetics with examples (5)
15. Explain the mechanism of action, uses and adverse effects of paracetamol (1.5+2+1.5)

**SHORT ANSWERS ( No choices )**

**10 X 3 = 30 Marks**

16. Explain mechanism of action and one use of disulfiram
17. Mention three uses and three adverse effects of frusemide
18. Mention three calcium channel blockers and write three uses
19. Mention three enzyme inducers and write one use for each
20. Mention three contraindications for the use of fibrinolytics
21. Mention two glycoprotein IIb/IIIa receptor antagonists and write one use
22. Write the mechanism of action and two uses of diazepam
23. Explain mechanism of action, one use and one adverse effect of atorvastatin
24. Mention three phases of clinical trial
25. Explain mechanism of action, write one use and one contraindication to heparin

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**M.B.B.S Phase-II Examination February 2022**

Time: 3 hours

Max Marks: 100

**PHARMACOLOGY- PAPER 2**

*Your answer should be specific to the question asked  
Draw neat and labeled diagrams wherever necessary*

**LONG ESSAY ( Answer any 2 )**

**2 X 10 = 20 Marks**

1. List beta lactam antibiotics. Explain the mechanism of action, uses and adverse effects of ceftriaxone (4+2+2+2)
2. Classify drugs used in hyperthyroidism. Explain mechanism of action of propylthiouracil and radioactive iodine. List advantages of radioactive iodine (4+2+2+2)
3. List drugs used in viral infections. Explain the mechanism of action, uses and adverse effects of rifampicin (4+1+3+2)

**SHORT ESSAY ( Answer any 10 )**

**10 X 5 = 50 Marks**

4. Explain the mechanism of action, uses and adverse effects of acyclovir (2+2+1)
5. Explain the advantages and disadvantages of antimicrobial combinations with examples (2.5+2.5)
6. List the uses and adverse effects of prednisolone (3+2)
7. Explain the mechanism of action, uses and adverse effects of doxycycline (2+2+1)
8. Explain the mechanism of action, uses and adverse effects of alendronate (2+2+1)
9. List first generation antihistaminics and write their uses and adverse effects (2+2+1)
10. Explain the mechanism of action, uses and adverse effects of gentamicin (1.5+2+1.5)
11. Explain the mechanism of action of any five drugs used in bronchial asthma (5)
12. Explain the uses and adverse effects of cyclosporine (3+2)
13. Explain the mechanism of action, uses and adverse effects of metronidazole (2+2+1)
14. Explain the mechanism of action, uses and adverse effects of insulin (1+2+2)
15. Explain the mechanism of action, uses and adverse effects of omeprazole (2+2+1)

**SHORT ANSWERS ( No choices )**

**10 X 3 = 30 Marks**

16. Explain mechanism of action and one use for fluconazole
17. Explain mechanism of action and write one use of cotrimoxazole
18. Mention three selective estrogen receptor modulators
19. Clavulanic acid is combined with amoxicillin. Justify
20. Mention three uses of uterine stimulants
21. List three uses of chloroquine
22. Explain mechanism of action, write one use and one specific adverse effect of glimepiride
23. Mention three drugs used in vomiting and write three uses
24. Mention three uses of azithromycin
25. Mention three alkylating agents used in cancer chemotherapy

