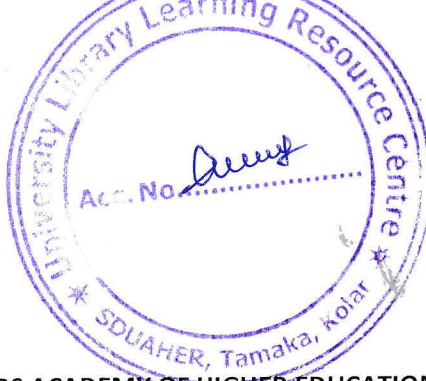




Question Paper Code:U2061

SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-II Degree examination JULY 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 (Answer any 2)

2 X 10 = 20 Marks

1. Classify non steroidal antiinflammatory drugs (NSAIDs). Explain the mechanism of action , uses and adverse effects of diclofenac (4+2+2+2)
2. Define order of kinetics, plasma half -life and therapeutic index with clinical significance and examples (4+3+3)
3. Enumerate drugs used in hypertension. Explain mechanism of action, uses and adverse effects of nifedipine (4+2+2+2)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. List uses and adverse effects of chlorpromazine (2.5+2.5)
5. Explain mechanism of action of tizanidine, baclofen and dantrolene with their uses (1.5+2+1.5)
6. List the advantages and disadvantages of oral route and intramuscular route of drug administration with examples (2.5+2.5)
7. Mention the parenteral iron preparations. List their indications and precautions during administration (1+2+2)
8. Explain the mechanism of action and drug treatment of digoxin overdose with justification (2+3)
9. List drugs used in hyperlipidaemia. Explain mechanism of action and adverse effects of fibrates (2+1.5+1.5)
10. Enumerate the class II antiarrhythmics, explain the mechanism of action of any one drug and its uses (2+2+1)
11. Explain the mechanism of action, uses and adverse effects of diclofenac (1.5+2+1.5)
12. Explain the basis of drug therapy for organophosphorus poisoning (5)
13. Define biotransformation and explain any four Phase II biotransformation reactions with examples (1+5)
14. Explain the mechanism of action, uses and adverse effects of warfarin (2+2+1)
15. Enumerate angiotensin converting enzyme inhibitors. List their uses and adverse effects (1.5+2+1.5)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Explain three factors which modify drug action with drug examples
17. Explain the rationale for combining mephenamic acid with dicyclomine
18. Write the treatment for acute iron poisoning
19. Mention two osmotic diuretics with one use for each
20. Mention three reversible cholinesterase inhibitors and write three uses
21. Explain the mechanism of action and write two uses of botulinum toxin
22. Explain mechanism of action and two uses of clopidogrel
23. List three differences between enalapril and losartan
24. List three drugs from different groups used as preanaesthetic medication and explain the rationale for their use
25. Mention three drugs administered through nasal route with one clinical use for each





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Max Marks:100

PHARMACOLOGY- PAPER 1

*Your answer should be specific to the question asked
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LONG ESSAY

2 X 10 = 20 Marks

1. List adrenergic agonists. Mention one clinical use for each adrenergic agonist (4+6)
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 mechanism of action of drugs used in parkinsonism (5)
4. Explain their mechanism of action, uses and adverse effects of fibrates (2+1.5+1.5)
5. Explain the mechanism of action of any five group of diuretics (5)
6. Explain the mechanism of action, uses and adverse effects of alpha blockers (1+2+2)
7. Explain the consequence and uses of enzyme induction with examples (3+2)
8. Mention reversible cholinesterase inhibitors and their uses (1+4)
9. Explain the mechanism of action, uses and adverse effects of telmisartan (1+2+2)
10. Enumerate the selective cyclooxygenase-2 (COX-2) inhibitors. List the uses and adverse effects (1+3+1)
11. Explain the mechanism of action, uses and adverse effects of enoxaparin (2+3)
12. Define Pharmacogenetics with four examples (1+4)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Explain the rationale for combining hydralazine with a diuretic
14. Define side effect, toxic effect and teratogenicity with one example for each
15. Enumerate three skeletal muscle relaxants and write three uses
16. Explain the mechanism of action and write two uses of probenecid
17. Explain mechanism of action, one use and one adverse effect of atorvastatin
18. List three nonselective alpha antagonists and write their uses
19. Mention three drug interactions of frusemide
20. Explain Reye's syndrome
21. Mention two iron preparations given intravenously and write two uses
22. Mention two drugs which inhibit microsomal enzymes and explain one drug interaction.



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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. Define volume of distribution, plasma half-life and order of kinetics with clinical significance and examples (3+3+4)
2. Enumerate the drugs used in epilepsy. Explain the mechanism of action of drugs used in absence seizures and their adverse effects (4+6)

SHORT ESSAY

10 X 5 = 50 Marks

3. Explain advantages of transdermal patch with 3 examples and their uses (2+3)
4. Explain the uses and contraindications to Morphine. (3+2)
5. Explain the mechanism of action, uses and adverse effects of enalapril (2+2+1)
6. Explain mechanism of action, uses and adverse effects of Propranolol (1+2+2)
7. Explain mechanism of action, uses and drug interactions of warfarin (1.5+1.5+2)
8. Explain the consequence and uses of enzyme induction with examples (3+2)
9. Explain the mechanism of action, uses and adverse effects of disulfiram (1.5+2+1.5)
10. Mention reversible cholinesterase inhibitors and their uses (1+4)
11. Explain the uses and adverse effects of nitrates (3+2)
12. Explain the mechanism of action, uses and adverse effects of fluoxetine (2+2+1)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Explain mechanism of action, one use and one adverse effect of selegiline
14. Explain mechanism of action, one use and one specific adverse effect of frusemide
15. Mention THREE route of drug excretion with ONE example for each
16. Enumerate three skeletal muscle relaxants and write three uses
17. Explain mechanism of action, write one use and one adverse effect of heparin
18. Explain reversible and irreversible antagonism with one example for each
19. Explain the mechanism of action of lorazepam and write two uses of lorazepam
20. Mention THREE uses of adrenaline
21. Folic acid alone is not used in treatment of vitamin B12 deficiency. Justify
22. Write three uses of verapamil



Question Paper Code:U2062

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-II Degree examination JULY 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 the cephalosporins. Explain the mechanism of action, uses and adverse effects of ceftazidime (3+3+2+2)
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 mechanism of action and list three clinically used sulfonamides with one use for each (2+3)
4. List first generation antihistaminics and write their uses and adverse effects (2+2+1)
5. List uterine stimulants. Explain their mechanism of action and uses (1+4)
6. Explain the mechanism of action, uses and adverse effects of Rifampicin (1+2+2)
7. Explain the mechanism of action and uses of theophylline. Write treatment of theophylline overdose (2+2+1)
8. Explain the uses and adverse effects of cyclosporine (3+2)
9. Explain the mechanism of action, uses and adverse effects of fluconazole (2+2+1)
10. Explain the uses and adverse effects of Prednisolone
11. Explain the mechanism of action, uses and adverse effects of ondansetron (2+2+1)
12. Explain the mechanism of action, uses and adverse effects of Ciprofloxacin (2+2+1)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Explain mechanism of action and list one use and one adverse effect of propylthiouracil
14. Explain mechanism of action and mention two uses of Doxycycline
15. Mention three uses of Bisphosphonates
16. Explain mechanism of action and ONE use of Clomiphene Citrate
17. Explain the mechanism of action and write two uses of pantoprazole
18. Explain mechanism of action and ONE use of Sumatriptan
19. Mention three drugs from different groups used in the treatment of constipation with their mechanism of action
20. Mention three macrolides and write three therapeutic uses of one of them
21. Mention THREE Prostaglandin analogues and write THREE uses.
22. Explain mechanism of action and write two uses of Chloroquine

Sri Devaraj Urs Academy of Higher Education and Research
MBBS PHASE – II EXAMINATION, JULY 2022

Time : 150 Minutes

MaxMarks : 80 Marks

Date : 14-07-2022

PHARMACOLOGY PAPER – I QP CODE:- C2061

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

Long Essay

10 × 2 = 20 Marks

1. List the drugs used in epilepsy. Explain mechanism of action, uses and adverse effects of phenytoin (4+2+2+2)
2. Classify drugs used in hypertension. Explain mechanism of action, uses and adverse effects of enalapril (4+2+2+2)

Short Essay

5 × 12 = 60 Marks

3. Define biotransformation and explain any four Phase II biotransformation reactions with examples (1+5)
4. Mention five drugs contraindicated in renal failure with one use for each (2.5+2.5)
5. Mention anticholinergic drugs and write their uses (2.5+2.5)
6. Explain the mechanism of action, uses and adverse effects of alpha blockers (1+2+2)
7. Explain mechanism of action of botulinum toxin, dantrolene and succinylcholine with their uses (1.5+2+1.5)
8. Explain mechanism of action of lignocaine and three techniques of lignocaine administration (2+3)
9. Explain the uses and contraindications to Morphine (3+2)
10. Explain the mechanism of action and adverse effects of cardiac glycosides (2+3)
11. 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)
12. Write the differences between frusemide and mannitol (5)
13. Mention three glycoprotein IIb/IIIa receptor antagonists and write uses and adverse effects (1.5+2+1.5)
14. Mention societal and doctor's expectation towards health care. (2.5+2.5)



Sri Devaraj Urs Academy of Higher Education and Research

(Deemed to be University)

MBBS PHASE – II EXAMINATION JULY 2022

Time : 150 Minutes

Max Marks : 80 Marks

Date : 15-07-2022

PHARMACOLOGY PAPER – II QP CODE:- C2062

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

Long Essay

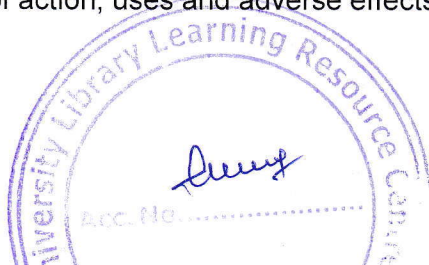
10 × 2 = 20 Marks

1. Classify glucocorticoids. Explain their uses (4+6)
2. A 25 years old teacher complained of tiredness and malaise for the past one month. Her colleague at school commented that she seemed to have lost a lot of weight and advised her to visit the hospital. At the hospital the doctor, on taking history, noted that she was having cough with expectoration for the past two months but had never coughed blood. She also had occasional fever and chest pain on coughing. She had never suffered from similar symptoms before and also she had never been in contact with anyone with such symptoms. (2+4+4)
 - a. What is your probable diagnosis and which investigation you would advise to confirm your diagnosis?
 - b. Explain the regimen to be used in this patient
 - c. Explain the mechanism of action and adverse effects of any two drugs indicated for the above condition

Short Essay

5 × 12 = 60 Marks

3. Explain the mechanism of action, uses and adverse effects of lugol's iodine (2+1.5+1.5)
4. List the newer insulin preparations and write their advantages (2.5+2.5)
5. Explain the uses and adverse effects of third generation cephalosporins (3+2)
6. Explain mechanism of action and uses of doxycycline. Mention advantages of doxycycline over tetracycline (1.5+2+1.5)
7. Explain the mechanism of action, uses and adverse effects of azithromycin (2+2+1)
8. Explain the mechanism of action and adverse effects of dapsone. Write the treatment for leprosy reactions (2+1+2)
9. Explain mechanism of action and write one use for ganciclovir, saquinavir, ribavirin, interferon alpha and oseltamivir (5)
10. Mention four drugs from different groups used in the treatment of vomiting and explain mechanism of action of any three drugs (2+3)
11. Explain the mechanism of action and uses of theophylline. Write treatment of theophylline overdose (2+2+1)
12. List four drugs used in acute attack of migraine and explain their mechanism of action (2+3)
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 itraconazole (2+2+1)



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M.B.B.S Phase-II Degree examination JULY 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 (Answer any 2)

2 X 10 = 20 Marks

1. Classify benzodiazepines. Explain mechanism of action, uses and adverse effects of midazolam (3+3+2+2)
2. Define volume of distribution, plasma half-life and order of kinetics with clinical significance and examples (3+3+4)
3. Classify drugs used in hypertension. Explain mechanism of action, uses and adverse effects of enalapril (4+2+2)

SHORT ESSAY (Answer any 10)

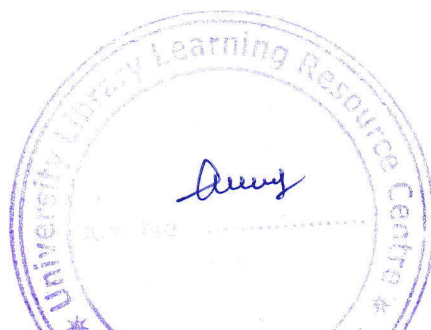
10 X 5 = 50 Marks

4. Explain the uses and adverse effects of calcium channel blockers (3+2)
5. Explain mechanism of action, uses and adverse effects of sodium valproate (2+2+1)
6. Mention the pre-anaesthetic medications and explain the rationale for their use
7. Explain types of drug antagonism with examples
8. Explain the clinical uses of dopamine, dobutamine and adrenaline (2+1+2)
9. List the contraindications of opioids and explain treatment of morphine overdose (2.5+2.5)
10. Explain the mechanism of action, uses and adverse effects of drugs acting on ascending loop of Henle (1+2+2)
11. Explain mechanism of action, uses and adverse effects of Propranolol
12. Mention the antiplatelet agents from different groups with their mechanism of action (5)
13. Explain the mechanism of action, uses and adverse effects of succinylcholine (1+2+2)
14. List the advantages and disadvantages of oral route and intravenous route of drug administration with examples (2.5+2.5)
15. Explain the mechanism of action, uses and adverse effects of atorvastatin (2+1.5+1.5)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Mention two iron preparations given intravenously and write two uses
17. Explain mechanism of action and write ONE use of Disulfiram
18. Explain mechanism of action and write ONE use of Digoxin
19. Mention THREE uses of atropine
20. Explain mechanism of action, ONE use and ONE adverse effect of Selegiline
21. Explain mechanism of action and write ONE use of Streptokinase
22. List THREE uses of Neostigmine
23. Mention THREE uses of fluoxetine
24. Explain mechanism of action of lignocaine and mention two techniques of administration
25. Define tachyphylaxis, toxicity and teratogenicity with one example for each



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M.B.B.S Phase-II Degree examination JULY 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. Classify beta lactam antibiotics. Explain the mechanism of action, uses and adverse effects of penicillin G (4+2+2+2)
2. Classify glucocorticoids. Explain their uses (4+6)
3. List oral antidiabetic drugs. Write the mechanism of action, uses and adverse effects of pioglitazone (4+2+2+2)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Explain mechanism of action, uses and adverse effects of Chloroquine (1.5+2+1.5)
5. Explain mechanism of action, uses and adverse effects of Doxycycline (1.5+2+1.5)
6. Explain mechanism of action, uses and adverse effects of Rifampicin (1.5+2+1.5)
7. Explain the mechanism of action, uses and adverse effects of sirolimus (2+2+1)
8. Explain the mechanism of action, uses and adverse effects of theophylline (2+2+1)
9. Explain the therapeutic uses of prostaglandin analogues (5)
10. Mention four drugs from different group used in the treatment of vomiting and explain mechanism of action of any three drugs (2+3)
11. Explain mechanism of action, uses and adverse effects of Gentamicin(1.5+2+1.5)
12. Mention two drugs from different groups used in systemic fungal infections. Explain their mechanism of action and adverse effects (1+2+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 oral combined pills (2+1.5+1.5)
15. Explain mechanism of action, uses and adverse effects of Acyclovir (1.5+2+1.5)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Mention triple drug regimen used for Helicobacter pylori infection
17. Mention three uses of Bisphosphonates
18. Mention three second generation anti histaminics and write THREE uses
19. Explain mechanism of action and ONE use of Sumatriptan
20. Mention three uses and three specific adverse effects of tacrolimus
21. Mention THREE chelating agents
22. Mention uses of Albendazole
23. Explain mechanism of action and list two adverse effects of propylthiouracil
24. Mention three non diarrhoeal uses of oral rehydration therapy
25. Mention THREE drugs used in Leprosy

