

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

MBBS Phase II Examination February 2021

Time: 180 Minutes

Marks: 100

Pharmacology Paper I

Your answer should be specific to the question asked

Draw neat and labeled diagrams wherever necessary

Long Essay

10 × 2 = 20 Marks

1. List routes of drug administration with drug examples, explain the advantages and disadvantages of oral route of drug administration (6+2+2)
2. Classify beta blockers. Explain the uses and adverse effects of propranolol (4+3+3)

Short Essay

5 × 10 = 50 Marks

3. Define bioavailability. Explain patient factors affecting it. (1+4)
4. List the uses of Sympathomimetics (5)
5. Explain the clinical features of atropine poisoning and write the management (2+3)
6. Explain the mechanism of action, uses and adverse effects of succinylcholine (1+2+2)
7. Explain the mechanism of action, uses and adverse effects of diclofenac (1.5+2+1.5)
8. Explain mechanism of action of selegiline, pramipexole, entacapone, benzhexol and write one use (4+1)
9. Explain mechanism of action, uses and drug interactions of sodium valproate (2+2+1)
10. Explain the mechanism of action, clinical uses and adverse effects of fluoxetine (1.5+2+1.5)
11. Explain five different techniques of lignocaine administration with one procedure performed for each technique (5)
12. Explain mechanism of action, uses and adverse effects of furosemide. (1.5+2+1.5)

Short Answer

3 × 10 = 30 Marks

13. Explain reversible and irreversible antagonism with one example for each
14. Write three advantages of alteplase.
15. Explain the rationale for administration of Vitamin K in warfarin overdose.
16. Mention three antiplatelet drugs and write three uses.
17. Explain the mechanism of action and two uses of diazepam.
18. Mention two centrally acting antihypertensive agents and explain their mechanism of action.
19. Mention three calcium channel blockers and write three uses.
20. Mention three inhalational general anesthetic agents.
21. Explain mechanism of action of digoxin
22. Explain the mechanism of action and one use of amiodarone.



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Pharmacology Paper II

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Long Essay

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1. Classify drugs used in Diabetes Mellitus. Explain mechanism of action, uses and adverse effects of insulin (4+2+2+2)
2. Classify first and second line drugs used in tuberculosis. Explain the mechanism of action, uses and adverse effects of Rifampicin (4+2+2+2)

Short Essay

5 × 10 = 50 Marks

3. Explain the mechanism of action and uses of theophylline. Write treatment of theophylline overdose (2+2+1)
4. Explain the mechanism of action, uses and adverse effects of omeprazole (2+2+1)
5. Explain the mechanism of action, uses and adverse effects of ondansetron (2+2+1)
6. List the uses and adverse effects of prednisolone (2.5+2.5)
7. Explain the mechanism of action, uses and adverse effects of alendronate (2+2+1)
8. Explain the mechanism of action, uses and adverse effects of gentamicin (2+2+1)
9. Explain the therapeutic uses of prostaglandin analogues (5)
10. List four second generation antihistaminics and explain their advantages over first generation antihistaminics (2+3)
11. Explain the mechanism of action, uses and adverse effects of methotrexate (2+2+1)
12. Explain the uses and adverse effects of cyclosporine (3+2)

Short Answer

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13. List three advantages and three disadvantages of radioactive iodine.
14. Explain mechanism of action, one use and one adverse effect of clomiphene citrate
15. Mention two uses and route of administration of ceftriaxone
16. Mention three uses and three adverse effects of metronidazole
17. Mention three uses of Amphotericin B.
18. Mention three fluoroquinolones and write three uses
19. Explain mechanism of action and two uses of azithromycin
20. Explain mechanism of action, write one use and one adverse effect of linezolid
21. Explain the mechanism of action, write one use and one adverse effect of chloroquine.
22. Mention three uses and three adverse effects of acyclovir



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Long Essay (Answer any two)**10 × 2 = 20 Marks**

1. Explain the terms side effect, toxic effect, tolerance, teratogenicity and photosensitivity with two examples for each (2+2+2+2+2)
2. Classify anticholinergic drugs. Explain uses and adverse effects of atropine. (4+3+3)
3. Classify drugs used in angina. Explain mechanism of action, uses and adverse effects of glyceryl trinitrate (4+2+2+2)

Short Essay (Answer any ten)**5 × 10 = 50 Marks**

4. Explain advantages and disadvantages of oral route of drug administration (2.5+2.5)
5. Explain the mechanism of action, uses and adverse effects of neostigmine. (1.5+2+1.5)
6. Explain mechanism of action of botulinum toxin, dantrolene and succinylcholine with their uses (1.5+2+1.5)
7. Explain mechanism of action, use and adverse effects of beta blockers. (1+2+2)
8. Explain mechanism of action of any five disease modifying antirheumatoid drugs (DMARDs) (5)
9. Explain the uses and contraindications of Morphine (2.5+2.5)
10. Explain the mechanism of action, uses and adverse effects of enalapril (1+2+2)
11. Explain mechanism of action of selegiline, pramipexole, entacapone, benzhexol and write one use (4+1)
12. Explain the mechanism of action and list uses and adverse effects of sodium valproate (1.5+2+1.5)
13. Explain the mechanism of action, uses and adverse effects of furosemide. (1.5+2+1.5)
14. Mention three antiplatelet agents from different groups with their mechanism of action and uses (1.5+1.5+2)
15. Enumerate the class III antiarrhythmics, explain the mechanism of action of any one drug and its uses (2+2+1)

Short Answer (Answer all)**3 × 10 = 30 Marks**

16. Mention three ligand gated ion channels and drugs which block them.
17. Mention two uses and one adverse effect of digoxin.
18. Mention three oral preparations of iron.
19. Explain mechanism of action and write two uses of diazepam.
20. Mention three intravenous general anesthetic agents.
21. Mention two uses and one adverse effect of diclofenac.
22. Write two clinical uses and one contraindication for dextrose
23. Write three uses of adrenaline.
24. Mention three techniques of administration of lignocaine with one procedure performed for each technique.
25. Enoxaparin is used in treatment of deep vein thrombosis. Justify



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Pharmacology Paper II

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Long Essay (Answer any two)

10 × 2 = 20 Marks

1. List oral antidiabetic drugs. Write the mechanism of action, uses and adverse effects of Metformin (4+2+2+2)
2. Classify hormonal contraceptives. Explain mechanism of action, other uses and adverse effects of hormonal contraceptives (4+2+2+2)
3. Classify drugs used in tuberculosis. Explain the mechanism of action, uses and adverse effects of Isonicotinic Acid Hydrazide (INH). (4+2+1+3)

Short Essay (Answer any ten)

5 × 10 = 50 Marks

4. Explain the mechanism of action, uses and adverse effects of doxycycline. (1.5+2+1.5)
5. Explain the mechanism of action, uses and adverse effects of omeprazole (2+2+1)
6. Explain the mechanism of action, uses and adverse effects of metoclopramide (2+2+1)
7. Explain the rationale for combining clavulanic acid with amoxicillin. Mention the therapeutic uses and adverse effects of amoxicillin. (2+2+1)
8. Mention the prostaglandin analogues and write their uses. (2+3)
9. Explain the mechanism of action, uses and adverse effects of azithromycin (2+2+1)
10. Explain the mechanism of action, therapeutic uses and adverse effects of chloroquine (2+2+1)
11. Explain the mechanism of action, uses and adverse effects of ciprofloxacin (2+2+1)
12. Explain the mechanism of action, uses and adverse effects of ornidazole (2+2+1)
13. Explain the uses and adverse effects of methotrexate (3+2)
14. Explain the mechanism of action, uses and adverse effects of cyclosporine. (2+2+1)
15. Explain mechanism of action, uses and adverse effects of chlorpheniramine (2+2+1)

Short Answer

3 × 10 = 30 Marks

16. List two drugs from different groups used in the prophylaxis of bronchial asthma and explain their mechanism of action.
17. List three mucolytic agents.
18. Propylthiouracil is preferred to treat hyperthyroidism in pregnancy. Justify
19. Mention three uses of alendronate.
20. Explain the mechanism of action and two uses of fluconazole.
21. Explain three uses and three adverse effects of gentamicin.
22. Glucocorticoids are contraindicated in osteoporosis and diabetes mellitus. Justify
23. Explain the mechanism of action and two uses of dapsone.
24. List three differences between oxytocin and ergometrine.
25. Mention three drugs from different groups used in the treatment of constipation.

