



Question Paper Code:111

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

M.B.B.S Phase-II Degree Examination – JANUARY 2018

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. List opioid agonists and antagonists. Explain uses and contraindications of Morphine (3+3+4)
2. List drugs used in congestive cardiac failure. Explain the basis for their use in congestive cardiac failure (4+6)

SHORT ESSAY

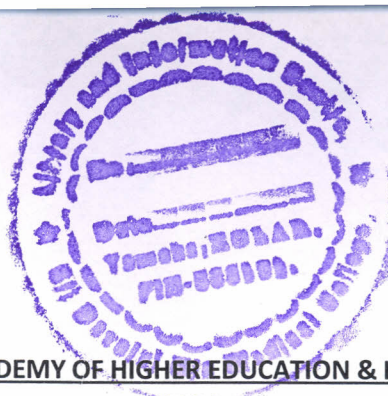
10 X 5 = 50 Marks

3. List the drugs used in glaucoma and explain their mechanism of action. (5)
4. Enumerate cardioselective beta blockers. List the clinical uses and adverse effects (1+2+2)
5. Explain the mechanism of action, uses and adverse effects of piroxicam (1.5+2+1.5)
6. Explain the mechanism of action, uses and adverse effects of ramipril (1+2+2)
7. Explain three routes of drug excretion with suitable drug examples (5)
8. Enumerate four oral iron preparations. List their uses and adverse effects (2+1+2)
9. Explain the mechanism of action and clinical uses of neuromuscular blockers (2+3)
10. List the advantages and disadvantages of sublingual route and intravenous route of drug administration with examples (2+3)
11. Explain the mechanism of action, uses and adverse effects of osmotic diuretics (1+2+2)
12. Explain mechanism of action, uses and adverse effects of diazepam (1.5+2+1.5)

SHORT ANSWERS

10 X 3 = 30 Marks

13. List three nasal decongestants
14. List three drugs from different categories used in glaucoma with their mechanism of action.
15. Explain mechanism of action of lignocaine and mention two techniques of administration
16. Mention three class I drugs used in arrhythmia
17. Mention three drugs contraindicated in pregnancy
18. Explain mechanism of action, one use and one adverse effect of ezetimibe
19. Mention three non-depolarizing skeletal muscle relaxants
20. List three antiplatelet drugs from different groups and explain their mechanism of action
21. Explain mechanism of action and one use of disulfiram
22. Mention three uses and three adverse effects of glyceryl trinitrate



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PHARMACOLOGY– Paper 2

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LONG ESSAY

2 X 10 = 20 Marks

1. Classify betalactam antibiotics. Explain the mechanism of action, uses and adverse effects of penicillin G (4+2+2+2)
2. Mention drugs used in hyperthyroidism. Explain mechanism of action, advantages and disadvantage of radioactive iodine (4+2+2+2)

SHORT ESSAY

10 X 5 = 50 Marks

3. Explain the mechanism of action, uses and adverse effects of voriconazole (2+2+1)
4. Explain the mechanism of action, uses and adverse effects of ornidazole (2+2+1)
5. List the newer insulin preparations and write their advantages (2.5+2.5)
6. Explain the mechanism of action, therapeutic uses and adverse effects of chloroquine (2+2+1)
7. List the uses and adverse effects of prednisolone (2.5+2.5)
8. Explain mechanism of action of five different category of drugs used in peptic ulcer (5)
9. Explain the mechanism of action, one use and adverse effects of sumatriptan (2+1+2)
10. Explain mechanism of action, uses and adverse effects for ofloxacin (2+2+1)
11. Explain mechanism of action, uses and adverse effects of bisphosphonates (2+2+1)
12. Explain the mechanism of action, uses and adverse effects of theophylline (2+2+1)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Explain mechanism of action and two uses of doxycycline
14. Mention three alkylating agents used in cancer
15. Mention three uses of progesterone preparations
16. Explain mechanism of action and two uses for gentamicin
17. Mention three prostaglandin analogues used in induction of labour
18. Explain mechanism of action and one use and one adverse effect of racecadotril
19. Mention three clinical uses of cetirizine
20. Mention mechanism of action and two specific adverse effects of tacrolimus
21. Mention two leukotriene receptor antagonists and two uses
22. Explain the vaccination schedule for hepatitis B



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M.B.B.S Phase-II(Part-1) Degree Examination – JANUARY 2018

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 diclofenac (4+2+2+2)
2. Classify drugs used in angina. Explain mechanism of action, uses and adverse effects of glyceryl trinitrate (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. List the differences between succinylcholine and pancuronium (5)
5. Mention five newer antiepileptic drugs and explain their mechanism of action (5)
6. List the calcium channel blockers. Explain their uses and contraindications (1+3+1)
7. List the advantages and disadvantages of oral route and intramuscular route of drug administration with examples (2.5+2.5)
8. Explain the mechanism of action, uses and contraindications for heparin (2+2+1)
9. Explain the mechanism of action and uses of neostigmine (2+3)
10. Explain the term tolerance, toxicity, teratogenicity, side effect and photosensitivity with one example (1+1+1+1+1)
11. Explain the mechanism of action, uses and adverse effects of thiazides (1+2+2)
12. Explain mechanism of action, uses and adverse effects of amitriptyline (1.5+2+1.5)

SHORT ANSWERS

10 X 3 = 30 Marks

13. List three drugs contraindicated in myasthenia gravis
14. Propranolol is contraindicated in type 1 diabetes mellitus. Justify
15. Explain the mechanism of action and write 2 uses of morphine
16. Explain mechanism of action of digoxin
17. Define plasma half-life and mention its clinical significance.
18. List three crystalloids and write three uses
19. Mention three drugs which should not be combined with pancuronium
20. Mention three antifibrinolytics with their uses
21. Explain three benefits for combining levodopa with carbidopa
22. Mention three class I drugs used in arrhythmia



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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. Explain general properties of aminoglycosides. Explain mechanism of action, uses and adverse effects of tobramycin (4+2+2+2)
2. Classify hormonal contraceptives. Explain mechanism of action, other uses and adverse effects of hormonal contraceptives (4+2+2+2)

SHORT ESSAY

10 X 5 = 50 Marks

3. Explain the mechanism of action, uses and adverse effects of clindamycin (2+2+1)
4. Explain bacterial drug resistance with examples (5)
5. List the uses and adverse effects of prednisolone (2.5+2.5)
6. Explain the mechanism of action, uses and adverse effects of cyclophosphamide (2+2+1)
7. List the newer insulin preparations and write their advantages (2.5+2.5)
8. Explain the mechanism of action and adverse effects of metoclopramide (3+2)
9. Explain mechanism of action, uses and adverse effects of cetirizine (2+2+1)
10. Write the treatment regimen for patients diagnosed with pulmonary tuberculosis for the first time (Category I) (5)
11. Explain the mechanism of action, uses and adverse effects of lugol's iodine (2+1.5+1.5)
12. Explain the mechanism of action, uses and adverse effects of theophylline (2+2+1)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Mention three uses and three adverse effects of amphotericin B
14. Mention one use with route of administration and one specific adverse effect of procaine penicillin
15. Mention three drugs used in post partum hemorrhage
16. Mention three fluoroquinolones and write three uses
17. Explain the mechanism of action and mention two uses of bisphosphonates
18. Mention two uses and one contraindication to laxative
19. Mention three clinical uses of azelastine
20. Mention three drugs used in psoriasis
21. List three drugs from different groups used in the prophylaxis of bronchial asthma
22. Mention three immune-stimulants and write three uses



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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. Enumerate the drugs used in epilepsy. Explain the mechanism of action of phenytoin and gabapentine with 2 uses for each (4+3+3)
2. Enumerate drugs used in hypertension. Explain mechanism of action, uses and adverse effects of amlodipine (4+2+2+2)
3. Classify cholinomimetics and anticholinestrases. Explain their uses (4+6)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Explain the mechanism of action of paracetamol and treatment of its overdose (2+3)
5. Explain the uses and adverse effects of nitrates (3+2)
6. Explain the mechanism of action and clinical uses of neuromuscular blockers (2+3)
7. Explain advantages of transdermal patch with 3 examples and their uses (2+3)
8. Enumerate four oral iron preparations. List their uses and adverse effects (2+1+2)
9. Explain three routes of drug excretion with suitable drug examples (5)
10. Explain the mechanism of action, uses and contraindications of propranolol (1+2+2)
11. Explain the mechanism of action, uses and adverse effects of drugs acting on ascending loop of Henle (1+2+2)
12. Explain the mechanism of action and contraindications to morphine (2+3)
13. Mention the drugs used as preanaesthetic medication and explain their rationale (5)
14. Enumerate the class II antiarrhythmics, explain the mechanism of action of any one drug and its uses (2+2+1)
15. Explain mechanism of action, uses and adverse effects of amitriptyline (1.5+2+1.5)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Explain fetal alcohol syndrome
17. Explain the mechanism of action and one use of amrinone
18. List three alpha-1 antagonists and write three uses.
19. Explain Pharmacogenetics with two examples.
20. Write three uses and three adverse effects of low molecular heparin
21. Explain mechanism of action, one use and one adverse effect of gemfibrozil
22. Mention three vasopressin analogues and write their uses
23. Explain how mivacurium, atracurium and succinylcholine are metabolized with their clinical significance
24. Define side effect, toxic effect and teratogenicity with one example each.
25. Mention three uses of streptokinase



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Max Marks:100

PHARMACOLOGY-- Paper 2

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LONG ESSAY (Answer any 2)

2 X 10 = 20 Marks

1. Classify cephalosporins. Explain the mechanism of action, uses and adverse effects of third generation cephalosporins (4+2+2+2)
2. List oral antidiabetic drugs. Write the mechanism of action, uses and adverse effects of pioglitazone (4+2+2+2)
3. Classify the drugs used in the treatment of fungal infections. Explain mechanism of action therapeutic uses and adverse effects of itraconazole (4+2+2+2)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Explain the mechanism of action, therapeutic uses and adverse effects of diethylcarbamazine (2+2+1)
5. Enumerate the general properties and therapeutic uses of gentamicin (2+3)
6. Explain the measures to reduce hypothalamopituitary axis suppression with glucocorticoids. List the adverse effects of glucocorticoids (3+2)
7. Explain the mechanism of action, uses and adverse effects of vincristine (2+2+1)
8. Explain the mechanism of action, uses and adverse effects of tamoxifen citrate (2+1.5+1.5)
9. Write the composition of oral rehydration solution (ORS) and explain the rationale for each constituent (5)
10. Explain the mechanism of action, uses and adverse effects of azithromycin (2+2+1)
11. Explain the mechanism of action, uses of theophylline. Write treatment of theophylline overdose (2+2+1)
12. Explain the mechanism of action, uses and adverse effects of tacrolimus (2+2+1)
13. List the drugs used in treatment of acute migraine. Explain the mechanism of action and adverse effects of sumatriptan (2+2+1)
14. List first generation antihistaminics and write their uses and adverse effects (2+2+1)
15. Explain the mechanism of action, uses and adverse effects of cyclosporine (2+2+1)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Mention three drugs used in leishmaniasis
17. Mention two drugs used in cerebral malaria and explain their mechanism of action
18. Mention three prostaglandin analogues used in induction of labour
19. Explain mechanism of action and use of ganciclovir
20. Explain mechanism of action and list two uses of propylthiouracil
21. Mention three prokinetic agents and write three specific adverse effects
22. List three enzymes used in therapy and explain their mechanism of action
23. Explain mechanism of action and one use of salbutamol
24. List three gonadotropin releasing hormone (GnRH) agonists and their three uses
25. Explain mechanism of action and two uses of doxycycline