



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 – JULY 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 benzodiazepines. Explain mechanism of action, uses and adverse effects of diazepam (3+3+2+2)
2. Classify drugs used in hypertension. Explain mechanism of action, uses and adverse effects of olmesartan (4+2+2+2)

SHORT ESSAY

10 X 5 = 50 Marks

3. Enumerate beta blockers used in glaucoma. Explain the mechanism of action, ocular side effects and their advantages (1+2+1+1)
4. Explain the mechanism of action and uses of neostigmine (2+3)
5. Explain physical and psychological dependence, mention two drugs of abuse and explain deaddiction measures for these drugs (2+1+2)
6. Explain the uses and adverse effects of nitrates (3+2)
7. Explain advantages of transdermal patch with 3 examples and their uses (2+3)
8. Explain the mechanism of action, uses and adverse effects of alteplase (2+2+1)
9. Explain the mechanism of action, uses and adverse effects of pancuronium (1+2+2)
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 drugs acting on ascending loop of Henle (1+2+2)
12. Explain the mechanism of action and list uses and adverse effects of carbamazepine (1.5+2+1.5)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Mention three uses and three contraindications of propranolol
14. Mention three drugs which should not be combined with succinylcholine
15. Explain why N-acetylcysteine is used in treatment of paracetamol overdose
16. Mention two uses and one adverse effect of digoxin
17. Explain competitive antagonism with two examples.
18. List three parenteral iron preparations and write three indications
19. List three differences between neostigmine and physostigmine
20. Write two clinical uses and one contraindication for dextrose
21. Mention two local anaesthetics with the mechanism of action and mention two techniques of administration
22. Mention three used in supraventricular tachyarrhythmia



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PHARMACOLOGY– PAPER 2

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LONG ESSAY

2 X 10 = 20 Marks

1. List drugs used in viral infections. Explain the mechanism of action, uses and adverse effects of acyclovir (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 uses and adverse effects of penicillin G (3+2)
4. Explain the mechanism of action and adverse effects of rifampicin and pyrazinamide (2.5+2.5)
5. List uterine stimulants. Explain their mechanism of action and uses (1+4)
6. Explain the mechanism of action, uses and adverse effects of vinca alkaloids (2+2+1)
7. Explain the mechanism of action, uses and adverse effects of oral combined pills (2+1.5+1.5)
8. Explain the mechanism of action, uses and adverse effects of ondansetron (2+2+1)
9. Explain the therapeutic uses of prostaglandins (5)
10. Explain the mechanism of action, uses and adverse effects of metronidazole (2+2+1)
11. List the uses and adverse effects of betamethasone (2.5+2.5)
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 three uses of azithromycin
15. Mention three uses of octreotide
16. Explain the mechanism of action and two uses of dapsone
17. Explain mechanism of action of metformin and write two uses
18. Omeprazole should not be given with antacids. Justify
19. Explain the mechanism of action and one use of sumatriptan
20. Explain the vaccination schedule for hepatitis B
21. List three drugs from different groups used in the prophylaxis of bronchial asthma
22. Mention three uses and three specific adverse effects of cyclosporine



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PHARMACOLOGY– PAPER 1

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LONG ESSAY (Answer any 2)

2 X 10 = 20 Marks

1. Classify antidepressants. Explain mechanism of action and uses and adverse effects of amitriptyline (4+2+2+2)
2. Classify drugs used in hypertension. Explain mechanism of action, uses and adverse effects of olmesartan (4+2+2+2)
3. Classify drugs used in the treatment of Parkinsonism. Explain mechanism of action and adverse effects of each category (4+6)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Explain the pharmacological actions and uses of propranolol (2.5+2.5)
5. Explain the mechanism of action, uses and adverse effects of succinylcholine (1+2+2)
6. Explain the mechanism of action and contraindications to morphine (2+3)
7. Explain the mechanism of action, uses and adverse effects of frusemide (1+2+2)
8. List the advantages and disadvantages of oral route and intramuscular route of drug administration with examples (2.5+2.5)
9. Explain the mechanism of action, uses and adverse effects of streptokinase (2+2+1)
10. Explain the mechanism of action and uses of neostigmine (2+3)
11. Explain the term tolerance, toxicity, teratogenicity, side effect and photosensitivity with one example (1+1+1+1+1)
12. Explain the uses and adverse effects of nitrates (3+2)
13. Explain the mechanism of action, uses and adverse effects of diclofenac (1.5+2+1.5)
14. List 3-hydroxy-3-methyl glutaryl coenzyme A (HMG-CoA) reductase inhibitors and write their uses and adverse effects (2+1+2)
15. Explain the two uses, two adverse effects and one drug interaction of digoxin (2+2+1)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. List four beta-2 agonists and write 2 uses
17. List three uses of metoprolol
18. List three inhalational general anaesthetic agents
19. Mention three used in supraventricular tachyarrhythmia
20. Define prodrug with two examples
21. Explain mechanism of action and two uses of clopidogrel
22. Explaining the basis for combining atropine with neostigmine during reversal of neuromuscular blockage
23. List three oral iron preparations and write three adverse effects
24. Explain the mechanism of action and write one use and one specific adverse effect of allopurinol.
25. Mention two centrally acting antihypertensive agents and explain their mechanism of action



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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 drugs used in viral infections. Explain the mechanism of action, uses and adverse effects of acyclovir (4+2+2+2)
2. Classify oral antidiabetic drugs. Explain mechanism of action of any three drugs from different groups (4+6)
3. Classify first and second line drugs used in tuberculosis drugs. Explain the mechanism of action, uses and adverse effects of rifampicin (4+2+2+2)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Explain the therapeutic uses and adverse effects of chloroquine (3+2)
5. List the uses and adverse effects of secnidazole (3+2)
6. List the uses and adverse effects of dexamethasone (2.5+2.5)
7. Explain the mechanism of action, uses and adverse effects of fluconazole (2+2+1)
8. Explain the mechanism of action, uses and adverse effects of oral combined pills (2+1.5+1.5)
9. Explain mechanism of action of five different category of drugs used in peptic ulcer (5)
10. Explain mechanism of action, uses and adverse effects of chlorpheniramine (2+2+1)
11. Explain the mechanism of action and uses of diethylcarbamazine and ivermectin (2.5+2.5)
12. Explain the uses and adverse effects of bisphosphonates (3+2)
13. Explain the mechanism of action, uses of theophylline. Write treatment of theophylline overdose (2+2+1)
14. Explain the mechanism of action, uses and adverse effects of cisplatin (2+2+1)
15. Explain the mechanism of action of propylthiouracil and radioactive iodine. List the advantages of radioactive iodine (1.5+1.5+2)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Explain mechanism of action and two uses for gentamicin
17. Mention three advantages of doxycycline over tetracycline
18. List three gonadotropin releasing hormone (GnRH) agonists and their three uses
19. Explain mechanism of action and two adverse effects of erythromycin
20. Mention three prostaglandin analogues used in induction of labour
21. Explain the mechanism of action and write two uses of metoclopramide
22. Explain the mechanism of action of rizatriptan and mention its use
23. Explain the vaccination schedule for hepatitis B
24. List three drugs from different groups used in the prophylaxis of bronchial asthma
25. Mention three uses and three specific adverse effects of tacrolimus