

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S. PHASE - II Degree Examination – July-2017

Time : 3 Hrs.

[Max. Marks : 100]

PHARMACOLOGY– PAPER I

Q.P Code : RS-111

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Classify Antipsychotic drugs? Write the mechanism of action, therapeutic uses and adverse effects of Atypical Antipsychotics.
2. Classify receptor mediated drug action. Explain in detail G-protein coupled receptors.
3. Classify Antihypertensive drugs? Write the mechanism of action, therapeutic uses and adverse reactions of calcium channel blockers.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

4. High ceiling diuretics-uses and adverse effects.
5. Newer drug delivery systems.
6. Write in detail about positive inotropic agents.
7. Classify α blockers. Add a note on their therapeutic uses.
8. Non depolarizing skeletal muscle relaxants.
9. Newer Antiepileptic drugs.
10. Classify Antiparkinsonian drugs. Write the pharmacological basis for combination of Carbidopa and Levodopa.
11. Slow acting IV anaesthetic agents.
12. Mention techniques of local anesthetics with an example.
13. Explain any two groups of atropine substitutes.
14. Atorvastatin.
15. Compare and Contrast – Ether and nitrous oxide.

SHORT ANSWERS (No Choices)

10 X 3 = 30 Marks

16. Uses of adrenaline.
17. Iron preparations.
18. Low molecular weight Heparin.
19. Opioid receptor antagonist.
20. Uptake 1 and 2 mechanisms of adrenergic transmission.
21. Rationale for use of low dose aspirin in myocardial infarction.
22. Cocaine.
23. Therapeutic window.
24. Management of hypovolemic shock.
25. Drugs used in glaucoma.

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PHARMACOLOGY– PAPER II

Q.P Code : RS-112

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LONG ESSAY (Answer any Two)

2 X 10 = 20 Marks

1. Classify oral diabetic agents. Describe the mechanism of action, therapeutic uses and adverse effects of insulin secretagogues.
2. Classify antifungal drugs. Describe the spectrum of activity and mechanism of action, therapeutic uses and adverse effects of Amphotericin-B.
3. Classify drugs used in peptic ulcer. Describe the mechanism of action, therapeutic uses, adverse effects and drug interactions of proton pump inhibitors.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

4. Explain why prostaglandin analogues are useful for induction of abortion but not Oxytocin and Ergometrine.
5. Selective estrogen receptor modulators.
6. Describe the treatment of acute Luminal Amoebiasis.
7. Name four Antifolates. Describe the preferred use of each agent.
8. What is the mechanism of action of Macrolide antibiotics? Describe their clinical uses.
9. Describe the factors responsible for failure of antimicrobial therapy.
10. Mention the drugs used in acne vulgaris. What is the treatment of acute pustular acne?
11. Chlorhexidine mechanism of action and its uses.
12. Enumerate antioxidants agents and mention their indications.
13. Describe the role of corticosteroids in organ transplantation.
14. Explain briefly the pharmacological basis of using Misoprostal in peptic ulcer.
15. Bulk forming laxatives.

SHORT ANSWERS (No Choices)

10 X 3 = 30 Marks

16. Define an expectorant. Give an example and use.
17. Name two antihelmenthics in cysticercoses.
18. Which antidiabetic agent produces disulfiram like reaction?
19. Explain why metronidazole should be avoided in alcohol consumers.
20. Name one antifungal agent useful for cushing syndrome.
21. Explain why Trimethoprim is used for bacterial infection but not Methotrexate.
22. Name two drugs which are useful for both leprosy and tuberculosis.
23. Describe drug therapy for gonorrhea.
24. Name two plasma expanders which may interfere with cross matching of blood.
25. Explain why Na₂EDTA is not used as chelating agent?

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LONG ESSAY

2 X 10 = 20 Marks

1. Define Bioavailability. Describe patient factors affecting Bioavailability.
2. Mention the various atropine substitutes and their uses in clinical practice.

SHORT ESSAY

10 X 5 = 50 Marks

3. Adverse effects of high ceiling diuretics.
4. Inhalational anaesthetics.
5. Nitrate tolerance.
6. Pharmacotherapy of anaphylactic shock.
7. Management of organophosphorous poisoning.
8. Drug induced parkinsonism.
9. Adverse effects and uses of ACE inhibitors.
10. Disulfiram like reaction.
11. Therapeutic uses and adverse effects of digoxin.
12. Atorvastatin.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Thiopentone sodium is used for induction of general anaesthesia.
14. Mention two advantages and two disadvantages of subcutaneous route of drug administration.
15. Role of dantrolene in malignant hyperthermia.
16. Folic acid alone should not be used in pernicious anaemia.
17. Explain the basis for the combination of halothane with nitrous oxide.
18. Low dose aspirin in myocardial infarction. Explain.
19. Explain the mechanism of action of adenosine with its use.
20. Basis for use of timolol in glaucoma.
21. The indication of desferrioxamine with the basis.
22. Neostigmine is preferred over physostigmine in myasthenia gravis. Explain.

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PHARMACOLOGY– PAPER II

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LONG ESSAY

2 X 10 = 20 Marks

1. Classify anti diabetic drugs. Describe the mechanism of action, uses of sulfonyl ureas.
2. Classify the anti malarial agents. Write the mechanism of action, uses and adverse effects of chloroquine.

SHORT ESSAY

10 X 5 = 50 Marks

3. Therapeutic uses of corticosteroids.
4. Mention the drugs used in amoebiasis.
5. Ondansetron.
6. H pylori eradication therapy.
7. Newer antifungal drugs.
8. Aromatase inhibitors.
9. Interferons.
10. Reverse transcriptase inhibitors.
11. Newer macrolides.
12. Mention three drugs used in osteoporosis.

SHORT ANSWERS

10 X 3 = 30 Marks

13. L-Asparaginase.
14. Mention two anticancer antibiotics.
15. Mention two fluoroquinolones effective in leprosy.
16. Mechanism of action of acyclovir.
17. Mention two uterine relaxants.
18. Three major side effects of aminoglycosides.
19. Mention two cephalosporin used in typhoid fever.
20. Mention three uses of methotrxate.
21. Mifepristone-uses.
22. Mention three antithyroid drugs.