

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-II Degree Examination JULY 2019

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 mechanism of action, uses and adverse effects of fentanyl (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. List the uses of atropine and its substitutes (5)
4. Explain the mechanism of action and clinical uses of neuromuscular blockers (2+3)
5. Explain the mechanism of action, uses and adverse effects of aspirin (1.5+2+1.5)
6. Explain the mechanism of action, uses and adverse effects of thiazides (1+2+2)
7. Explain different types of drug antagonism with examples (5)
8. Enumerate four oral iron preparations. List their uses and adverse effects (2+1+2)
9. Explain the pharmacological actions and uses of propranolol (2.5+2.5)
10. Define bioavailability and explain four patient factors affecting it (1+4)
11. Explain the two uses, two adverse effects and one drug interaction of digoxin (2+2+1)
12. Explain uses and adverse effects of diazepam (3+2)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Write three properties of a plasma expander
14. Mention three drugs contraindicated in renal failure with one use for each
15. Explain mechanism of action and write two uses of fluoxetine
16. Mention two uses and two specific adverse effects of hydralazine
17. Mention one drug with three different routes of administration and write one clinical use for each route
18. Mention three low molecular weight heparins and write three clinical uses
19. Mention three drugs used to treat supraventricular tachyarrhythmia and write their mechanism of action
20. Mention two 3-hydroxy-3-methyl glutaryl coenzyme A (HMG-CoA) reductase inhibitors and write two uses
21. List three drugs from different category used in parkinsonism with their mechanism of action
22. Mention three disease modifying anti-rheumatoid drugs (DMARDs) with their mechanism of action

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PHARMACOLOGY- PAPER 2

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LONG ESSAY

2 X 10 = 20 Marks

1. Explain general properties of aminoglycosides. Explain mechanism of action, uses and adverse effects of amikacin (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 chloramphenicol (2+2+1)
4. List the uses and adverse effects of ornidazole (3+2)
5. Explain the mechanism of action of propylthiouracil and radioactive iodine. List the advantages of radioactive iodine (1.5+1.5+2)
6. Explain the mechanism of action, uses and adverse effects of clofazimine (2+2+1)
7. Explain the mechanism of action, uses and adverse effects of oxytocin (2+2+1)
8. Explain the mechanism of action and adverse effects of metoclopramide (3+2)
9. List the second generation antihistaminics. Enumerate their uses and advantages over first generation antihistaminics (1.5+2+1.5)
10. Explain the mechanism of action, uses and adverse effects of piperacillin (2+2+1)
11. Mention gonadotropin releasing hormone agonists and antagonists and mention their uses (2+3)
12. Explain the mechanism of action and adverse effects of salbutamol and ipratropium bromide (2.5+2.5)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Mention three second line drugs used in tuberculosis
14. Explain mechanism of action and two uses of ivermectin
15. Mention three uses and three contraindications to dexamethasone
16. Explain mechanism of action and two uses of ganciclovir
17. Explain the mechanism of action and two uses of cinacalcet
18. Explain the mechanism of action and two uses of mosapride
19. Explain mechanism of action and list two adverse effects of metformin
20. Explain mechanism of action and mention two uses of cyclosporine
21. Mention three non malarial uses of chloroquine
22. Explain mechanism of action, one use and one adverse effect of norfloxacin

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PHARMACOLOGY- PAPER 1

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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 aspirin (4+2+2+2)
2. List drugs used in congestive cardiac failure. Explain the basis for their use in congestive cardiac failure (4+6)
3. List sympathomimetics. Explain the clinical uses of selective alpha and beta agonists (4+3+3)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Explain mechanism of action, use and adverse effects of allopurinol (2+1+2)
5. List the class I antiarrhythmics, explain the mechanism of action of any one drug and its uses (2+2+1)
6. Explain the mechanism of action and uses of neostigmine (2+3)
7. Explain different types of drug antagonism with examples (5)
8. Enumerate four oral iron preparations. List their uses and adverse effects (2+1+2)
9. List drugs used as transdermal patch with one use for each. List the advantages of this route (3+2)
10. List the differences between succinylcholine and pancuronium (5)
11. Enumerate the drugs blocking renin angiotensin aldosterone system. Explain the uses and adverse effects of ramipril (2+3)
12. Explain the mechanism of action, uses and adverse effects of thiopentone sodium (1+2+2)
13. Explain the mechanism of action, clinical uses and adverse effects of fluoxetine (1.5+2+1.5)
14. Explain three routes of drug excretion with suitable drug examples (5)
15. Explain the mechanism of action, uses and contraindications to heparin (2+2+1)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Mention three drugs used in generalized tonic clonic seizures which block sodium channels
17. Explain the mechanism of action, one use and one adverse effect of amiloride
18. Explain the mechanism of action and write two uses of diazepam
19. Mention three drugs from different category contraindicated in renal failure
20. List three uses of normal saline
21. List three antiplatelet drugs from different groups and explain their mechanism of action
22. Mention three uses and three adverse effects of glyceryl trinitrate
23. Mention specific antidote for morphine overdose with rationale for its use
24. Mention three types of blinding in a clinical trial
25. List three drugs from different groups used in hyperlipidaemia and explain mechanism of action of any one drug

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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. Classify penicillins. Explain the mechanism of action and therapeutic uses of amoxicillin. Explain the rationale of combining clavulanic acid with amoxicillin (3+3+2+2)
2. Mention drugs used in hyperthyroidism. Explain mechanism of action, advantages and disadvantage of radioactive iodine (4+2+2+2)
3. 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 (Answer any 10)

10 X 5 = 50 Marks

4. Explain the advantages and disadvantages of antimicrobial combinations with examples (2.5+2.5)
5. Explain the mechanism of action, uses and adverse effects of cotrimoxazole (2+2+1)
6. Explain mechanism of action, uses and adverse effects of glibenclamide (2+1+2)
7. Explain the mechanism of action, therapeutic uses and adverse effects of artesunate (2+2+1)
8. Explain the mechanism of action, uses and adverse effects of oxytocin (2+2+1)
9. Explain the mechanism of action, one use and adverse effects of sumatriptan (2+1+2)
10. Explain the mechanism of action, uses and adverse effects of chloramphenicol (2+2+1)
11. Explain the mechanism of action and adverse effects of salbutamol and theophylline (2.5+2.5)
12. Explain the mechanism of action, uses and adverse effects of cyclosporine (2+2+1)
13. Explain the mechanism of action, uses and adverse effects of cefazolin (2+2+1)
14. Explain the mechanism of action, uses and adverse effects of tamoxifen citrate (2+1.5+1.5)
15. Explain the mechanism of action and adverse effects of rabeprazole and famotidine (2.5+2.5)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Explain the mechanism of action and two clinical uses of mebendazole
17. Explain mechanism of action and two uses of nevirapine
18. Explain the mechanism of action and mention two uses of zoledronate
19. Mention three uses of daunorubicin
20. Mention three gonadotropin preparations
21. Mention the organism causing pseudomembranous colitis and write two drugs used to treat this condition
22. Explain mechanism of action and two adverse effects of erythromycin
23. Explain mechanism of action and two uses for amikacin
24. Glucocorticoids are contraindicated in peptic ulcer and diabetes mellitus. Justify
25. Mention three uses and three adverse effects of ofloxacin