

SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-II Degree Examination APRIL 2021

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 antipsychotics. Explain mechanism of action, uses and adverse effects of chlorpromazine (4+2+2+2)
2. Explain the terms bioavailability with patient factors, enzyme induction and inhibition with their clinical significance (6+2+2)

SHORT ESSAY

10 X 5 = 50 Marks

3. Explain the mechanism of action and adverse effects of cardiac glycosides (2+3)
4. Explain orders of kinetics with examples (5)
5. Explain the mechanism of action, uses and adverse effects of piroxicam (1.5+2+1.5)
6. List the calcium channel blockers. Explain their uses and adverse effects (1+2+2)
7. List the advantages and disadvantages of subcutaneous route and intravenous route of drug administration with examples (2.5+2.5)
8. Explain the uses and adverse effects of sodium valproate and gabapentin (3+2)
9. Explain the mechanism of action, uses and contraindications to propranolol (1+2+2)
10. Enumerate the opioid antagonists. Write their mechanism of action and uses (1+2+2)
11. Write the differences between frusemide and mannitol (5)
12. Explain mechanism of action, uses and adverse effects of heparin (1.5+2+1.5)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Mention potassium channel openers with one use for each
14. Explain mechanism of action and one use of buspirone
15. List three crystalloids and write three uses
16. Define physiological antagonism with two examples
17. Explain three receptor mediated effects of atropine in eye
18. List three oral iron preparations and write three adverse effects
19. List three drugs from different groups used as preanaesthetic medication and explain the rationale for their use
20. Explain mechanism of action, one use and one specific adverse effect of enalapril
21. Explain mechanism of action and one use of disulfiram
22. Explain mechanism of action, write one use and one adverse effect of pancuronium



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PHARMACOLOGY- PAPER 2

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LONG ESSAY

2 X 10 = 20 Marks

1. Classify drugs used in tuberculosis. Explain the mechanism of action, uses and adverse effects of isonicotinic acid hydrazide (INH) (4+2+1+3)
2. Classify glucocorticoids. Explain their uses (4+6)

SHORT ESSAY

10 X 5 = 50 Marks

3. Explain the measures and drugs used to reduce toxicity due to anticancer drugs (5)
4. Explain differences between propylthiouracil and carbimazole (5)
5. Explain the mechanism of action, uses and adverse effects of cyclosporine (2+2+1)
6. Explain the mechanism of action, uses and adverse effects of second generation cephalosporins (2+2+1)
7. List the Vitamin D preparations and explain their uses (1+4)
8. Enumerate the general properties and therapeutic uses of gentamicin (2+3)
9. Explain the mechanism of action, uses and adverse effects of famotidine (2+2+1)
10. Explain mechanism of action, uses and adverse effects of intermediate acting insulin (2+2+1)
11. Explain the mechanism of action and uses of diethylcarbamazine and ivermectin (2.5+2.5)
12. Explain the mechanism of action, uses and adverse effects of tinidazole (2+2+1)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Mention three drugs of different category used in treatment of status asthmaticus
14. Chloramphenicol is avoided in new born infant. Justify
15. Explain mechanism of action, write one use and one adverse effect of clomiphene citrate
16. Explain the mechanism of action and two uses of sulfasalazine
17. Explain the rationale for combining cilastatin with imipenem and mention two uses of this combination
18. Mention three uses and three adverse effects of ciprofloxacin
19. Explain the mechanism of action and write two uses of chloroquine
20. List six uses of prostaglandin analogues
21. Mention three uterine stimulants and write three uses
22. Explain the mechanism of action and write two clinical uses of ondansetron



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PHARMACOLOGY- PAPER 1

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LONG ESSAY (Answer any 2)

2 X 10 = 20 Marks

1. List routes of drug excretion with examples, explain the various factors affecting major routes of excretion of drugs (4+3+3)
2. Classify drugs used in hypertension. Explain mechanism of action, uses and adverse effects of ramipril (4+2+2+2)
3. Classify non steroidal antiinflammatory drugs (NSAIDs). Explain the mechanism of action , uses and adverse effects of diclofenac (4+2+2+2)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Explain the mechanism of action, uses and adverse effects of diazepam (2+2+1)
5. Enumerate two oral anticoagulants. Explain the mechanism of action and write two uses (1+2+2)
6. List the beta blockers and their uses (1+4)
7. Explain the mechanism of action, uses and adverse effects of nitroglycerine (2+2+1)
8. Mention reversible cholinesterase inhibitors and their uses (1+4)
9. Explain succinylcholine apnoea. Explain the management (2+3)
10. Explain the uses and adverse effects of phenytoin and ethosuximide (3+2)
11. Explain five different techniques of bupivacaine administration with one procedure performed for each technique (5)
12. List one drug from different groups used in hyperlipidaemia. Explain mechanism of action and adverse effects of any one drug (2+1.5+1.5)
13. Explain the mechanism of action, uses and adverse effects of digoxin (2+1+2)
14. Explain the advantages and disadvantages of intravenous route of drug administration(2.5+2.5)
15. Explain the mechanism of action, uses and adverse effects of amiodarone (2+2+1)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. List three uses of adrenaline
17. Define teratogenicity, side effect and toxic effect with one example for each
18. Explain mechanism of action and one use of ketamine
19. Mention three antiplatelet agents and write three uses
20. List three clinical conditions where atropine is given intravenously
21. Mention three uses of fluoxetine
22. Mention three uses and three contraindications to morphine
23. Mention three drugs used in glaucoma with their mechanism of action
24. Define zero order kinetics and write the clinical significance
25. Explain mechanism of action and write two uses of hydrochlorothiazide



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PHARMACOLOGY- PAPER 2

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LONG ESSAY (Answer any 2)

2 X 10 = 20 Marks

1. List the corticosteroids. Mention the uses and contraindications of corticosteroids (4+3+3)
2. List drugs used in the treatment of malaria. Explain the mechanism of action, adverse effects and uses of chloroquine (4+2+2+2)
3. List the antimicrobials that inhibit cell wall synthesis. Explain therapeutic uses and adverse effects of penicillin G (4+3+3)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Explain the mechanism of action, uses and adverse effects of omeprazole (2+2+1)
5. Explain the therapeutic uses and adverse effects of chloroquine (3+2)
6. Mention the tocolytic agents. Explain mechanism of action of any three tocolytic agents from different category (2+3)
7. Explain the mechanism of action of acarbose, glibenclamide and metformin (1.5+1.5+2)
8. Mention betalactamase inhibitors with their combinations and list their clinical uses (3+2)
9. Explain mechanism of action, uses and adverse effects of rifampicin (1+2.5+1.5)
10. Explain mechanism of action, uses and adverse effects of ciprofloxacin (1.5+2+1.5)
11. Explain the mechanism of action, uses and adverse effects of tacrolimus (2+2+1)
12. Explain the mechanism of action, uses and adverse effects of fluconazole (2+2+1)
13. Explain mechanism of action, uses and adverse effects of selective estrogen receptor modulators (2+2+1)
14. Explain the mechanism of action, therapeutic uses and adverse effects of albendazole (2+2+1)
15. Explain the mechanism of action, therapeutic uses and adverse effects of metronidazole (2+2+1)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Explain mechanism of action and use of raltegravir
17. Explain the mechanism of action, write one use and one specific adverse effect of insulin
18. Explain mechanism of action and write two uses of methotrexate
19. Mention three drugs used in acute attack of bronchial asthma with their route of administration
20. Mention drug used in motion sickness and explain its mechanism of action and one adverse effect
21. Mention mechanism of action and two adverse effects of ritodrine
22. Mention three advantages and three disadvantages of radioactive iodine
23. Write the treatment for lepra reactions
24. Write three uses of alendronate
25. Explain mechanism of action and mention two uses of azithromycin

