

SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S Phase-II Degree Examination JANUARY 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 (Answer any 2)

2 X 10 = 20 Marks

1. Classify general anaesthetics. Explain mechanism of action, uses and adverse effects of ketamine (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. Classify drugs used in glaucoma. Explain their mechanism of action and adverse effects of each category. (4+6)

SHORT ESSAY (Answer any 10)

10 X 5 = 50 Marks

4. Enumerate the selective cyclooxygenase-2 (COX-2) inhibitors. List the uses and adverse effects (1+3+1)
5. Explain the mechanism of action, uses and adverse effects of enalapril (1+2+2)
6. Explain the mechanism of action, uses and adverse effects of pancuronium (1+2+2)
7. Explain advantages and disadvantages of transdermal patch with 2 examples (4+1)
8. List drugs used in hyperlipidaemia. Explain mechanism of action and adverse effects of fibrates (2+1.5+1.5)
9. Explain the term tolerance, toxicity, teratogenicity, side effect and photosensitivity with one example for each (1+1+1+1+1)
10. Explain the clinical uses of any five directly acting sympathomimetics (5)
11. Explain the mechanism of action, uses and adverse effects of osmotic diuretics (1+2+2)
12. Explain the mechanism of action and list uses and adverse effects of carbamazepine (1.5+2+1.5)
13. Explain mechanism of action of drugs used in parkinsonism (5)
14. Explain orders of kinetics with examples (5)
15. List the beta blockers and their uses (1+4)

SHORT ANSWERS (No choices)

10 X 3 = 30 Marks

16. Explain mechanism of action and write two specific adverse effects of thioridazine
17. Explain mechanism of action, one use and one adverse effect of adenosine
18. Explain three receptor mediated effects of atropine in eye
19. Define drug synergism and antagonism with one example for each
20. Explain mechanism of action and two uses of clopidogrel
21. Explain mechanism of action, write one use and one adverse effect of streptokinase
22. Mention three drugs used in acute attack of myocardial infarction and explain their basis for use
23. List three centrally acting muscle relaxants and write three uses
24. Mention three types of blinding in a clinical trial
25. Write two clinical uses and one contraindication for dextrose

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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 the beta lactam antibiotics. Explain the mechanism of action, uses and adverse effects of ceftriaxone (4+2+2+2)
2. Classify oral antidiabetic drugs. Explain mechanism of action of any three drugs from different groups (4+6)
3. Classify the drugs used in the treatment of fungal infections. Explain mechanism of action of any three drugs from different category with their uses (4+6)

SHORT ESSAY (Answer any 10)**10 X 5 = 50 Marks**

4. Explain the mechanism of action, uses and adverse effects of vinca alkaloids (2+2+1)
5. Explain mechanism of action and list three clinically used sulfonamides with one use for each (2+3)
6. Explain steroid card (5)
7. Explain the mechanism of action, uses and adverse effects of tobramycin (2+2+1)
8. Explain the mechanism of action, uses and adverse effects of tamoxifen citrate (2+1.5+1.5)
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 ciprofloxacin (2+2+1)
11. Explain the mechanism of action, uses and adverse effects of theophylline (2+2+1)
12. Explain the mechanism of action, uses and adverse effects of sirolimus (2+2+1)
13. Explain mechanism of action, uses and adverse effects of chlorpheniramine (2+2+1)
14. Explain the mechanism of action, uses and adverse effects of lugol's iodine (2+1.5+1.5)
15. Explain the mechanism of action, uses and adverse effects of ondansetron (2+2+1)

SHORT ANSWERS (No choices)**10 X 3 = 30 Marks**

16. Mention three macrolides and write three therapeutic uses of one of them
17. Define multidrug-resistant tuberculosis and mention two drugs used in this situation
18. List three uses and three adverse effects of octreotide
19. Mention three uses and three adverse effects of metronidazole
20. List three differences between oxytocin and ergometrine
21. List three first generation antihistamines and write their uses
22. List three bacterial and three viral vaccines
23. Explain mechanism of action and write one use and one adverse effect of theophylline
24. Explain the mechanism of action and mention two uses of bisphosphonates
25. Mention three adverse effects of dapsone

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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****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. Enumerate drugs used in hypertension. Explain mechanism of action, uses and adverse effects of amlodipine (4+2+2+2)

SHORT ESSAY**10 X 5 = 50 Marks**

3. Explain the clinical uses of any five directly acting sympathomimetics (5)
4. Explain advantages and disadvantages of transdermal patch with 2 examples (4+1)
5. Enumerate the clinical uses of crystalloids and colloids (5)
6. Explain five drug interactions with clinical significance (5)
7. List the drugs used in glaucoma and explain their mechanism of action. (5)
8. Explain the mechanism of action, uses and adverse effects of pancuronium (1+2+2)
9. Define volume of distribution and plasma half-life. Explain clinical significance of plasma half-life (1+1+3)
10. Enumerate the antiplatelet agents. Write their uses and adverse effects (2+3)
11. Explain five different techniques of lignocaine administration with one clinical use (5)
12. Explain the mechanism of action, uses and adverse effects of drugs acting on ascending loop of Henle (1+2+2)

SHORT ANSWERS**10 X 3 = 30 Marks**

13. Mention the receptors on which dopamine acts and explain one use
14. Mention three drugs contraindicated in liver failure with one use for each
15. Explain mechanism of action and mention two specific adverse effects of heparin
16. Morphine is used in acute left ventricular failure. Explain the basis
17. List three positive inotropic agents used in congestive cardiac failure with their mechanism of action
18. Mention three uses of streptokinase
19. Mention three uses and three adverse effects of glyceryl trinitrate
20. Explain mechanism of action, one use and one adverse effect of entacapone
21. Mention any three phases of clinical trial
22. Explain mechanism of action and write two uses of neostigmine

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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 ganciclovir (4+2+2+2)
2. Classify hormonal contraceptives. Explain mechanism of action, other uses and contraindications to combined contraceptive pill (4+2+2+2)

SHORT ESSAY

10 X 5 = 50 Marks

3. Enumerate antibiotics used in cancer chemotherapy and list their uses and adverse effects (1.5+2+1.5)
4. Explain the mechanism of action, therapeutic uses and adverse effects of diethylcarbamazine (2+2+1)
5. Explain the therapeutic uses of prostaglandin analogues (5)
6. Mention two drugs used in post partum haemorrhage. Explain their mechanism of action and adverse effects(1+3+1)
7. Explain the mechanism of action, uses and adverse effects of lugol's iodine (2+1.5+1.5)
8. Explain the mechanism of action, uses and adverse effects of clarithromycin (2+2+1)
9. Mention four drugs from different group used in the treatment of vomiting and explain mechanism of action of any three drugs (2+3)
10. Explain mechanism of action, uses and adverse effects of cetirizine (2+2+1)
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 theophylline (2+2+1)

SHORT ANSWERS

10 X 3 = 30 Marks

13. Explain mechanism of action and two uses of terbinafine
14. Explain the rationale for using neomycin in hepatic coma and mention its route of administration
15. Mention three clinical uses of loratadine
16. Mention three uses and three adverse effects of methylprednisolone
17. Mention three antisera
18. Explain mechanism of action and write one use and one adverse effect of theophylline
19. Write the treatment for lepra reactions
20. List two drugs from different groups used in the prophylaxis of bronchial asthma and explain their mechanism of action
21. Mention three drugs used in psoriasis
22. List three drugs used in acute attack of migraine