

2019 Scheme

Q.P. Code: 211001

Reg. no.:

Second Professional MBBS Degree Regular/Supplementary Examinations January 2023

Pharmacology - Paper I

(General Pharmacology, ANS, CNS, CVS, Blood, Diuretics, Autacoids, Respiratory System)
Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers
- Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Long Essays

- (a) Classify drugs used for treatment of epilepsy with two examples each. (2x15=30)
(b) Write the mechanism of action, uses and adverse effects of sodium valproate.
(c) Outline the management of status Athmaticus. (6+4+5)
- A 65-year-old woman presents with swelling over ankle and feet and over the face in morning. Weakness, fatigue, cough at night. A diagnosis of moderate heart failure is made by physician
(a) Enumerate four drug groups with two examples each to treat heart failure.
(b) Describe the rationale for using each drug group.
(c) Mention the other uses and adverse effects of ACE Inhibitors. (6+4+5)

Short essays

- (a) Classify peripherally acting skeletal muscle relaxants. (5x8=40)
(b) Mention one centrally acting skeletal muscle relaxant with its mechanism of action and indications for use. (4+4)
- Briefly describe kinetics of elimination. Add a note on factors modifying drug action. (4+4)
- (a) Signs and symptoms of Atropine toxicity. Briefly outline the management.
(b) Uses of Prostaglandins (4+4)
- (a) Frusemide.
(b) Write the pharmacological management of Stage II Hypertension. (4+4)
- Heparin. (2+3+3)

Short answers

- Pharmacological management of Opium (Morphine) dependence. (5x4=20)
- Enumerate four therapeutic uses of Adrenaline, with its rationale for use in each condition.
- Propofol.
- Pharmacotherapy of Rheumatoid arthritis.
- Anxiety disorders.

Choose the Appropriate Drug and Justify:

- Adrenaline/Noradrenaline in Anaphylactic shock (2x1=2)
- Levodopa/Benzhexol in chlorpromazine induced Parkinsonism

Name the following (Two examples for each):

- Drugs used in productive cough (8x1=8)
- Centrally acting alpha-2 receptor agonist
- Microsomal enzyme inhibitors
- Xanthine oxidase inhibitors
- Vesicoselective anticholinergics
- Carbonic anhydrase inhibitors in glaucoma
- Drugs causing tachyphylaxis
- Drugs used to treat Acute Mania.

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Long Essays

(2x15=30)

1. (a) Classify drugs used for treatment of epilepsy with two examples each.
(b) Write the mechanism of action, uses and adverse effects of sodium valproate.
(c) Outline the management of status Athmaticus. (6+4+5)
2. A 65-year-old woman presents with swelling over ankle and feet and over the face in morning. Weakness, fatigue, cough at night. A diagnosis of moderate heart failure is made by physician
(a) Enumerate four drug groups with two examples each to treat heart failure.
(b) Describe the rationale for using each drug group.
(c) Mention the other uses and adverse effects of ACE Inhibitors. (6+4+5)

Short essays

(5x8=40)

3. (a) Classify peripherally acting skeletal muscle relaxants.
(b) Mention one centrally acting skeletal muscle relaxant with its mechanism of action and indications for use. (4+4)
4. Briefly describe kinetics of elimination. Add a note on factors modifying drug action. (4+4)
5. (a) Signs and symptoms of Atropine toxicity. Briefly outline the management.
(b) Uses of Prostaglandins (4+4)
6. (a) Frusemide.
(b) Write the pharmacological management of Stage II Hypertension. (4+4)
7. Heparin. (2+3+3)

Short answers

(5x4=20)

8. Pharmacological management of Opium (Morphine) dependence.
9. Enumerate four therapeutic uses of Adrenaline, with its rationale for use in each condition.
10. Propofol.
11. Pharmacotherapy of Rheumatoid arthritis.
12. Anxiety disorders.

Choose the Appropriate Drug and Justify:

(2x1=2)

13. Adrenaline/Noradrenaline in Anaphylactic shock
14. Levodopa/Benzhexol in chlorpromazine induced Parkinsonism

Name the following (Two examples for each):

(8x1=8)

15. Drugs used in productive cough
16. Centrally acting alpha-2 receptor agonist
17. Microsomal enzyme inhibitors
18. Xanthine oxidase inhibitors
19. Vesicoselective anticholinergics
20. Carbonic anhydrase inhibitors in glaucoma
21. Drugs causing tachyphylaxis
22. Drugs used to treat Acute Mania.
