

## 2019 Scheme

Q.P. Code: 211001

Reg. no.: .....

**Second Professional MBBS Degree Regular/Supplementary  
Examinations March 2024  
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****(2x15=30)**

1. A 65-year-old lady presented with pain in both knees more on the left side. The pain is worsened by walking or standing for some time. X-Ray of knee shows narrowing of joint space, mild effusion and osteophytic projections. A diagnosis of Osteoarthritis of knee is made. She gave past history of ischemic heart disease a year back which was treated by angioplasty and a stent was placed.
  - (a) Classify Non-steroidal Anti-Inflammatory Drugs (NSAIDs).
  - (b) Which NSAID will be suitable for relieving knee pain. Justify.
  - (c) Which NSAID is to be avoided. Why.
  - (d) Describe the mechanism of action, uses and adverse effects of Aspirin. (4+2+2+7)
2. (a) Enumerate four drug groups used to treat Hypertension with two examples each.  
(b) Write the mechanism of action uses and adverse effects of any one group.  
(c) Describe the drugs used in management of Acute Myocardial infarction with rationale for use of each drug (4+3+8)

**Short essays****(5x8=40)**

3. Drugs used to treat Parkinsonism. Describe the Mechanism of action and adverse effects of levodopa.
4. Compare the Mechanism of action, uses and adverse effects of Thiazides and Loop diuretics.
5. Enumerate opioid receptors. Write the uses, adverse effects and contra indications for Morphine. Briefly describe the management of Morphine poisoning. (1+5+2)
6. Compare Inhalational and intravenous general anesthetics (4+4)
7. (a) Neostigmine.  
(b) Ondansetron.

**Short answers****(5x4=20)**

8. Briefly describe enzyme induction and enzyme inhibition with suitable examples.
9. Sumatriptan.
10. Fixed drug combination of drugs
11. Mechanism of action and therapeutic indications of Atorvastatin
12. Pharmacotherapy of Anaphylactic shock with rationale for use of each drug.

**Choose the Appropriate Drug and Justify:****(2x1=2)**

13. Prazosin/Phentolamine for the treatment of Benign hypertrophy of prostate (BPH) in elderly patients
14. Colchicine/Allopurinol for the treatment of Acute gout

**Name the following (Two examples for each):****(8x1=8)**

15. Carbonic anhydrase inhibitors used to treat glaucoma
16. Drugs for Hypertensive emergencies
17. Drugs having high first pass metabolism
18. Drugs used in bipolar disorder
19. Drugs used to treat Venous thromboembolism
20. Centrally acting skeletal muscle relaxants
21. Inhaled steroids in Bronchial Asthma
22. Drugs used for Smoking cessation

\*\*\*\*\*