

**Second Year BPT Degree Supplementary Examinations March 2020****Pharmacology  
(2016 Scheme)**

Time: 3 hrs

Max marks: 80

- *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*

**Essays****(2x15=30)**

1. Classify non-steroidal anti-inflammatory drugs (NSAIDs). Explain the mechanism of action, pharmacological actions, uses and adverse effects of NSAIDs. (3+3+4+2+3)
2. Explain the pharmacological basis for using nitrates in angina pectoris and list the adverse effects of nitrates. List four other classes of drugs with examples for each used in the angina pectoris. Enumerate the uses and adverse effects of any one of the classes listed. (3+3+4+3+2)

**Short Essays****(2x10=20)**

3. Describe how patient and drug factors affect the absorption of drugs. Define 'bioavailability' and explain how first pass metabolism affects bioavailability. (7+3)
4. Mention three classes of drugs used in the treatment of peptic ulcer with examples for each. Explain the mechanism of action of any two classes and list their uses. (4+4+2)

**Short Answers****(10x3=30)**

5. Advantages and disadvantages of intramuscular route of drug administration.
6. Uses of atropine
7. Two examples of antiepileptic drugs and mechanism of action of any one of them
8. Pharmacological actions of morphine in CNS
9. Mechanism of action and uses of ciprofloxacin
10. General toxicities of anticancer drugs
11. Examples, uses and adverse effects of  $\beta_2$  agonists
12. Two human insulin preparations and mechanism of action of insulin
13. Examples of statins and their mechanism of action
14. Uses and adverse effects of succinylcholine.

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