

**Second Year BPT Degree Supplementary Examinations June 2025****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 drugs used in treatment of diabetes mellitus with examples. Describe the mechanism of action, adverse effects and uses of insulin (8+1+3+3)
2. Classify skeletal muscle relaxants with examples. Mention the mechanism of action, therapeutic uses and adverse effects of d-tubocurarine (8+1+3+3)

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

3. Define the term bioavailability of drugs. Describe the factors influencing the drug absorption and bioavailability by oral route (2+8)
4. Patient controlled analgesia

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

5. Compare and contrast warfarin and heparin
6. Explain the pharmacologic basis for use of bisphosphonates in the treatment of osteoporosis
7. Therapeutic uses of beta blockers
8. Mention the pharmacologic basis for use of promethazine in treatment of acute muscle dystonia occurring due to use of dopamine blocker drugs
9. Mention three classes of drugs used in peptic ulcer with two examples for each class
10. Examples, uses and adverse effects of statins
11. Therapeutic uses and adverse drug effects of selective serotonin reuptake inhibitors
12. Therapeutic uses and adverse effects of Methotrexate
13. Drugs given by iontophoresis and phonophoresis
14. Adverse effects of fluoroquinolone group of antibiotics

\*\*\*\*\*