Second B.P.Th. Examination, July/August 2005
PHARMACOLOGY (New Course)

Total Duration: Section A + B + C = 2 Hours
Section B & C Marks: 30

Instructions: 1) All questions are compulsory.
2) The number to the right indicates full marks.
3) Draw diagrams wherever necessary.
4) Answer each Section in the respective answer sheet only.
5) Answers written in the inappropriate sectional answer book will not be assessed in any case.

SECTION – B

2. Attempt any five out of six: \((5\times3=15)\)
   a) Which receptors are involved in actions of adrenaline? Describe therapeutic uses and adverse effects of adrenaline.
   b) Enumerate diuretics which can cause potassium loss. Describe site of action, therapeutic indications and side effects of a high ceiling diuretic.
   c) Define the term 'expectorant'. Classify these agents describing their mode of action and giving suitable examples.
   d) Describe indications and side effects of glucocorticoids.
   e) Describe various factors operating in gastro-intestinal tract which influence absorption of orally administered drugs.
   f) Enumerate fluoroquinolones. Describe their mode of action, spectrum of activity and adverse effects.

SECTION – C

3. Attempt any three out of four: \((3\times5 = 15)\)
   a) Enumerate peripheral sites of release of acetylcholine and mention one agent each, blocking its action at these sites. Describe therapeutic uses of atropine explaining the underlying pharmacological basis for that use.
   b) Enumerate any four antihypertensive agents belonging to different pharmacological groups. Describe mode of antihypertensive action, other therapeutic uses if any and adverse effects of any two of them.
   c) Define the term 'Broad Spectrum Antibiotic'. Enumerate agents belonging to this group. Describe mode of action and adverse effects of any one of them. Write a note on 'supernfection'.
   d) Define the term 'Analgesic'. Describe pharmacological actions, therapeutic indications and precautions for use of morphine.