

**RUHS Second MBBS (Main) Examination Pharmacology Paper -I****Date: February 2014****Time: 3 hours****Max Marks: 40****Instructions: Attempt all questions. (Use separate answer sheet for each section)**

SECTION A

1. Classify antiepileptic drugs. Discuss the mechanism of action, therapeutic uses and adverse effects of a sodium valproate. (A. 417, B. 131) (08)
2. Explain why: (4 x3 = 12)
 - a) Pralidoxime is used for the treatment of organophosphorus and not carbamate poisoning (A. 111, B. 291)
 - b) Tamsulosin is preferred over prazosin for the treatment of Benign Prostate Hypertrophy. (A. 142, 143, B. 977)
 - c) Antihistaminic are not effective for treatment of bronchial asthma. (A. 228, B. 360)
 - d) Misoprostol is used for the treatment of NSAID induced peptic ulcer. (A. 654, B. 623)

SECTION B

3. Write short notes on; 3+3+4=10
 - a) Transdermal therapeutic system (A. 6, B. 8)
 - b) Receptor regulation Plasma 1/2 and its clinical significance (A. 31, B. 21)
4. Give the suitable answer for the following; (1 x 10 = 10)
 - a) What are the advantages of adding a vasoconstrictor to a local anaesthetic? (A. 363, B. 241)
 - b) Write the mechanism of action of N acetylcysteine for treating paracetamol poisoning (A. 207, B. 171)
 - c) Why therapeutic drug monitoring is advised for patients on lithium therapy? (A. 447, B. 211) (A. 34, B. 24)
 - d) Morphine is contraindicated in patients of head injury (A. 474, B. 152)
 - e) Bupivacaine is preferred epidural anesthetic for painless delivery and postoperative analgesia.
 - f) What is rational drug use? Give one suitable example (A. 71)
 - g) Name the sites where α adrenergic receptors are present and the responses mediated by them.
 - h) Name the commonly used nasal decongestants. Briefly write the mechanism of action and their side effects. (A. 136, B. 268)
 - i) What is enzyme induction? Mention its clinical significance. (A. 26, B. 19)
 - j) Why haloperidol is a preferred drug for the treatment of acute schizophrenia?

