1. Short answer question (any five out of six)  
   a) Mention advantages of benzodiazepines over barbiturates.  
   b) Mention drugs used in Organophosphorous-poisoning with its rational.  
   c) Write a short note on mucolytics.  
   d) Discuss mechanism of action of Omeprazole. Mention its therapeutic uses  
   e) Mention drugs used in treatment of asthma. Mention two adverse effects of any drug.  
   f) Write the Mechanism of analgesic action of NSAIDs and two adverse effects  

   \[ (5 \times 3 = 15) \]

2. Short answer question (any five out of six)  
   a) Enumerate four factors affecting the bioavailability of a drug with suitable examples.  
   b) Classify antiepileptic drugs. Discuss the therapeutic uses and adverse reaction of Phenytoin  
   c) Classify antihypertensive drugs; mention therapeutic uses of Angiotensin Converting Enzyme- inhibitors.  
   d) Classify oral anti-diabetic drugs. Discuss the indications of Insulin in Type 2 diabetes mellitus.  
   e) Classify penicillins. Discuss the advantages of amoxicillin and clavulanic acid combination.  
   f) Classify drugs used for treatment of Rheumatoid arthritis. Discuss any one disease modifying agent with respect to mechanism of action and adverse reactions.  

   \[ (5 \times 5 = 25) \]