

**General & Dental Pharmacology and Therapeutics  
(2010 Scheme)**

Time: 3 hrs

Max marks: 100

- Answer all questions
- Draw diagram wherever necessary

**Essay (2x14=28)**

1. Define bioavailability. Explain eight factors modifying the drug action. Mention the advantages and disadvantages of intravenous route of drug administration. (2+8+4)
2. Enumerate four first line anti tubercular drugs. Explain the mechanism of action and characteristic adverse effects of each. Add a note on the regimen used for the treatment of newly diagnosed pulmonary tuberculosis. (2+4+4+4)

**Short essays (4x8=32)**

3. Explain the pharmacological actions, adverse effects and contraindications for morphine. (4+2+2)
4. Classify general anesthetics. Explain the objectives of pre anesthetic medication, mentioning the drug used to achieve each objective. (4+4)
5. Classify penicillins with suitable examples. Explain its mechanism of action. Add a note on dental chemoprophylaxis. (4+2+2)
6. Enumerate four anticholinesterases and explain their uses. Outline the management of organophosphorous poisoning. (2+3+3)

**Short notes (10x4=40)**

7. Explain the mechanism of action and adverse effects of phenytoin sodium.
8. Enumerate three groups of bronchodilators with suitable examples. Explain the mechanism of action any one.
9. Enumerate four oral iron preparations. What are the indications for parenteral iron therapy.
10. Mention any four drugs belonging to different groups used in the treatment of hypertension. Explain the mechanism of action and two adverse effects for any one drug.
11. Enlist four synthetic glucocorticoids. Explain the methods used to minimize HPA axis suppression.
12. The role of fluoride in dentistry.
13. Explain the mechanism of action, uses and adverse effects of metoclopramide.
14. Enumerate four second generation antihistaminics. What are their advantages over first generation antihistaminics.
15. Triple drug regimen used in the management of peptic ulcer.
16. Classify antiretroviral agents with suitable examples.