



**Second Year BDS Degree Examinations July 2017**

**GENERAL & DENTAL PHARMACOLOGY AND THERAPEUTICS**

Time: 3 hrs

Max marks: 100

- Answer all questions
- Draw diagram wherever necessary

**Essay**

**(2x14=28)**

1. Classify local anesthetics with examples. Explain the mechanism of action, adverse effects and two techniques of local anesthesia with an indication for each. (5+3+3+3)
2. Enumerate eight classes of antimicrobial agents based on mechanism of action with suitable examples. Mention briefly chemoprophylaxis with examples (8+6)

**Short essays**

**(4x8=32)**

3. Mention two oral and two parenteral preparations of iron. List the adverse effects of oral iron therapy. (4+4)
4. Enumerate four synthetic glucocorticoids. Explain the adverse effects of glucocorticoids and give reason why they should not be stopped abruptly after prolonged use. (2+4+2)
5. Explain renin angiotensin aldosterone system with the help of a neat diagram. Mention four drugs belonging to different groups interfering with this system. (4+4)
6. Classify the drugs used in bronchial asthma. Mention the mechanism of action and adverse effects of salbutamol. Outline the treatment for acute severe asthma (status asthmaticus) (4+2+2)

**Short notes**

**(10x4=40)**

7. Define the term "biotransformation". Explain the two phases involved in biotransformation with suitable examples.
8. Mention two differences between the first generation and second generation H<sub>1</sub> antihistaminics and list four uses of H<sub>1</sub> antihistaminics.
9. Name two long acting and two short acting benzodiazepines. Mention two uses of diazepam
10. Mention four atropine substitutes. Explain the therapeutic use with pharmacological basis and route of administration for any one of them.
11. Compare and contrast: morphine and pethidine.
12. Explain the toxicities of anticancer drugs.
13. Explain four therapeutic uses of beta adrenergic antagonists.
14. List the drugs used in the management of paucibacillary leprosy and mention their adverse effects.
15. Preparations of insulin.
16. Role of fluorides in dental practice.