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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**SECOND BDS DEGREE EXAMINATION – DECEMBER 2019**

**SUBJECT: GENERAL AND DENTAL PHARMACOLOGY & THERAPEUTICS (ESSAY)**

Wednesday, December 04, 2019

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

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**✍ Answer ALL the questions.**

**✍ Essay:**

1A. Classify local anesthetics with examples. Explain two techniques of local anesthesia with an indication for each.

1B. Write briefly on conscious sedation.

((3+3)+4 = 10 marks)

2A. Mention four first line anti-tubercular drugs and list two specific adverse effects for each.

2B. Explain two advantages and two disadvantages of combined use of antimicrobials with a suitable example.

(6+4 = 10 marks)

**3. Answer the following:**

3A. Define bioavailability. Explain any three factors that affects bioavailability.

3B. Classify non-depolarizing skeletal muscle relaxants. Explain any two uses of them.

3C. Explain four therapeutic uses of adrenergic agonists with suitable examples.

3D. Enumerate any two drugs which predispose oral candidiasis. Explain the measures to minimize and treatment of the same.

3E. Explain how plasma level of calcium is regulated with the help of a diagram.

3F. Mention any two low molecular weight heparin and write three advantages over unfractionated heparin.

3G. Write briefly on anticaries agents with examples.

3H. With the help of a neat diagram, explain the differences between competitive and noncompetitive antagonism with suitable examples.

3I. Classify three groups of diuretics with suitable examples. Explain the mechanism of action of any one group.

3J. Write briefly on oral rehydration solution (ORS).

(4 marks × 10 = 40 marks)

