

MANIPAL ACADEMY OF HIGHER EDUCATION**SECOND BDS DEGREE EXAMINATION – DECEMBER 2017****SUBJECT: GENERAL AND DENTAL PHARMACOLOGY & THERAPEUTICS (ESSAY)**

Wednesday, December 20, 2017

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ **Answer ALL the questions.**

✍ **Draw diagrams and flow charts wherever appropriate.**

1A. Name four local anaesthetics. Explain the mechanism of action and adverse effects of local anaesthetics.

1B. Explain three techniques of local anaesthesia.

1C. Add a short note on conscious sedation.

(5+3+2 = 10 marks)

2A. Name two aminoglycosides. Explain their mechanism of action, uses and adverse effects.

2B. Mention three differences between amoxicillin and ampicillin.

2C. Add a note on the rationale of combining sulfamethoxazole with trimethoprim.

(5+3+2 = 10 marks)

3. **Answer the following:**

3A. Explain the implications of plasma protein binding with examples.

3B. Explain four methods to prolong duration of action of drug with examples.

3C. Explain the action of atropine on eye and GIT.

3D. Explain two uses of adrenaline.

3E. Explain uses and adverse effects of ACE inhibitors.

3F. Explain the mechanism of action and uses of omeprazole.

3G. Explain the mechanism of action and uses of heparin.

3H. Name two oral antidiabetics. Explain mechanism of action and adverse effects of any one.

3I. Write briefly on vitamin C.

3J. Define chemoprophylaxis. Mention a regimen for chemoprophylaxis of HIV and subacute bacterial endocarditis.

(4 marks × 10 = 40 marks)

