

MANIPAL ACADEMY OF HIGHER EDUCATION
SECOND BDS DEGREE EXAMINATION – DECEMBER 2020/JANUARY 2021
SUBJECT: GENERAL AND DENTAL PHARMACOLOGY AND THERAPEUTICS (ESSAY)

Friday, January 01, 2021

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ Answer ALL the questions.

✍ Essay:

1A. Explain FOUR advantages and FOUR disadvantages of oral route of drug administration.

1B Explain 'first dose effect' with example.

(8+2 = 10 marks)

2A Name TWO cephalosporins. Write the mechanism of action, two uses and two adverse effects of cephalosporins.

(1+3 = 4 marks)

2B Define superinfection. Name two predisposing conditions for superinfection. Explain the steps to minimize superinfection.

(1+1+2 = 4 marks)

2C Define the terms 'bacteriostatic' and 'bactericidal' with an example for each.

(2 marks)

3. Answer the following:

3A Mention FOUR anticholinesterases and explain any TWO uses of them.

3B Mention THREE groups of diuretics with suitable examples. Write the mechanism of action of any one group.

3C Mention FOUR inhalational general anesthetics. Add a note on conscious sedation.

3D Mention any FOUR medical emergencies that could be encountered in dental practice. Explain the pharmacological management of any one of them.

3E Name FOUR anticoagulants. Write the mechanism of action and adverse effects of any one.

3F Write the mechanism of action, uses and adverse effects of phenytoin.

3G Explain the anti-inflammatory action of non-steroidal anti-inflammatory drugs (NSAIDs) and write a note on their adverse effects.

3H Mention THREE groups of antihypertensive agents with a suitable example for each. Explain the mechanism of action of any one group.

3I List TWO groups of oral antidiabetic drugs with an example for each. Write the mechanism of action for each group.

3J Explain the mechanism of action and uses of metronidazole.

(4 marks × 10 = 40 marks)

