

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND BDS DEGREE EXAMINATION – JUNE 2005
SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)

Monday, June 06, 2005

Time available: 14.30 – 17.00 Hours

Maximum Marks: 80

≠ DRAW DIAGRAMS AND FLOW CHARTS WHEREVER APPROPRIATE***≠ Answer all questions.***

- 1A. Enumerate **FOUR** methods to prolong the duration of action of drugs given parenterally with an example for each.
- 1B. Explain the following terms with a suitable example:
i) Synergism ii) Tachyphylaxis.
(6+(2+2) = 10 marks)
2. Classify local anesthetics with examples. Explain **TWO** techniques of local anesthesia with an indication for each.
(3+3 = 6 marks)
3. List **TWO** nonselective and **TWO** cardioselective beta blockers. Mention **ONE** use of beta blockers with pharmacological basis for its use.
(2+2 = 4 marks)
4. List **FOUR** groups of drugs used in the treatment of angina with an example for each group. Mention **ONE** combination of drugs used in angina and explain the rationale for its use.
(2+3 = 5 marks)
- 5A. Classify penicillins with examples. Mention **FOUR** uses of penicillin G.
- 5B. Explain the basis for the use of clavulanic acid with a penicillin.
(6+2 = 8 marks)
6. Mention **TWO** classes of iron preparations with examples and list **TWO** adverse effects of each class.
(4 marks)
7. Write briefly on:
- 7A. Calcitriol
- 7B. Clinical uses of H₁ blockers
- 7C. Ranitidine.
- 7D. Suprainfection
- 7E. Role of fluorides in dental practice.
(3×5 = 15 marks)

8. Mention **TWO** drugs used in the following conditions:

- 8A. Lepra reaction
- 8B. Oral candidiasis
- 8C. Tuberculosis
- 8D. Typhoid.

(1×4 = 4 marks)

9A. List **FOUR** glucocorticoids. Mention **TWO** uses and **TWO** adverse effects of glucocorticoids.

9B. Explain why glucocorticoid therapy should not be stopped abruptly.

((2+2)+2 = 6 marks)

10. Answer the following:

- 10A. Therapeutic uses of Metronidazole
- 10B. Uses and adverse effects of phenytoin
- 10C. Uses and adverse effects of diazepam.
- 10D. Uses of Atropine.

(3×4 = 12 marks)

11. Explain the pharmacological basis for the following:

- 11A. Morphine is contraindicated in bronchial asthma.
- 11B. Use of neostigmine in myasthenia gravis.
- 11C. Combination of Hydrochlorothiazide with amiloride in hypertension.

(2×3 = 6 marks)



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SECOND BDS DEGREE EXAMINATION – AUGUST 2005**SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)**

Friday, August 12, 2005

Time available: 14.30 – 17.00 Hours

Maximum Marks: 80

≠ DRAW DIAGRAMS AND FLOW CHARTS WHEREVER APPROPRIATE**≠ Answer all questions.**

- 1A. Classify opioid analgesics with examples.
- 1B. List four uses of the prototype opioid.
- 1C. Mention a condition where it is contraindicated and explain the basis for the same.
(4+2+2 = 8 marks)
- 2A. Classify antimicrobial agents based on mechanism of action with examples.
- 2B. Explain two advantages of combined use of antimicrobials with suitable examples.
(6+4 = 10 marks)
3. Mention one indication for the use of the following combination and explain the basis for the same.
- 3A. Adrenaline and Lignocaine.
- 3B. Hydrochlorothiazide and Amiloride.
- 3C. Penicillin G and Gentamicin.
(3×3 = 9 marks)
- 4A. Classify conventional preparations of Insulin based on duration of action with an example.
- 4B. List four adverse effects of Insulin.
- 4C. Mention two uses of glucocorticoids and explain the basis for any one use.
(3+2+3 = 8 marks)
- 5A. List four group of drugs used in bronchial asthma with an example. Explain the mechanism of action of commonly used drug for acute attack of bronchial asthma.
(4+2 = 6 marks)
- 5B. List two Fluoroquinolones. Mention four uses of them.
(1+2 = 3 marks)
- 5C. Define drug Antagonism. Explain three types of drug antagonism with Examples.
(1+6 = 7 marks)

6. Write briefly on the following:

- 6A. Uses of Atropine substitutes
- 6B. Mummifying agents.
- 6C. Oral Iron preparations
- 6D. Omeprazole

(4×4 = 16 marks)

7. Answer the following:

- 7A. Mention two drugs used in organophosphorus poisoning and explain the basis of use of any one drug.
- 7B. Define Bioavailability. List two factors affecting it.
- 7C. Explain sequential blockade with an example.
- 7D. Define an astringent with an example.

(2×4 = 8 marks)

8. Mention two drugs used in the following conditions:

- 8A. Oral Candidiasis
- 8B. HIV Infection
- 8C. Glaucoma
- 8D. Prophylaxis of angina
- 8E. Grandmal epilepsy

(1×5 = 5 marks)

