Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND BDS DEGREE EXAMINATION – JUNE 2006

SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)

Saturday, June 03, 2006

Time available: 14.30 – 17.00 Hours Maximum Marks: 80

1A. Define chemoprophylaxis. Mention two conditions with the specific drug used in prophylaxis.
1B. List three indications for antibiotic combinations with one example for each.
1C. List four differences between Ampicillin and Amoxycillin.

(3+3+2 = 8 marks)

2A. Enumerate four intravenous general anesthetics.
2B. Mention two advantages of combining Adrenaline with local anesthetic.
2C. Explain four techniques of local anesthesia with one indication for each.

(1+1+4 = 6 marks)

3A. Enumerate four drugs useful in hypertension belonging to different groups.
3B. Name four atropine substitutes with one different use for each.
3C. Mention one contraindication for the use of Beta-blocker with the basis.

(2+2+2 = 6 marks)

4A. Explain two therapeutically useful pharmacological actions of glucocorticoids.
4B. Mention four adverse effects of glucocorticoids.
4C. Name two antihistamines. Mention its two uses.

(3+1+2 = 6 marks)

5A. Explain four therapeutically useful pharmacological actions of Aspirin.
5B. Mention drug of choice for acute paracetamol overdosage and its basis.

(4+2 = 6 marks)

6. Give TWO uses and TWO adverse effects of the following:
6A. Frusemide.
6B. Metronidazole
6C. Nystatin
6D. Metoclopramide.

(2×4 = 8 marks)

7. Give reasons for the following:
7A. Alkalinization of urine in Salicylate poisoning.
7B. Morphine is contraindicated in head injury.
7C. Warfarin is not preferred for immediate anticoagulant action.
7D. Tetracycline is contraindicated in young children.

(3×4 = 12 marks)

8. Give the preferred drug, route of administration and basis for its use in the following conditions.

8A. Anaphylactic shock

8B. Type II Diabetes Mellitus

8C. Acute bronchial asthma

8D. Acute anginal attack

(3×4 = 12 marks)

9. Write briefly on:

9A. Drug antagonism

9B. Local hemostatics

9C. Bioavailability

9D. Antiseptics in dental practice.

(4×4 = 16 marks)

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MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND BDS DEGREE EXAMINATION – AUGUST 2006

SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)

Saturday, August 05, 2006

Time available: 14.30 – 17.00 Hours | Maximum Marks: 80

1A. What is biotransformation? Mention types of biotransformation reactions with a suitable example for each.

(2+2 = 4 marks)

1B. Explain the following terms with suitable examples:

i) First pass metabolism. ii) Tachyphylaxis.

(2+2 = 4 marks)

2A. Enumerate four examples of tetracyclines. List four uses and four adverse effects of tetracyclines

(2+2+2 = 6 marks)

2B. Classify general anaesthetics. Mention four drugs used as preanaesthetic medication with rationale for their uses.

(3+4 = 7 marks)

3A. Classify NSAIDs with suitable examples. Explain three therapeutically useful actions of them.

(4+3 = 7 marks)

3B. List three groups of insulin preparations based on duration of action. List two adverse effects of insulin. Explain why propranolol should not be given to patient on insulin therapy.

(3+1+2 = 6 marks)

4. Write briefly on:

4A. Obtundents.

4B. Second generaion antihistaminics.

4C. Role of Fluorides in dentistry.

4D. Rifampicin.

(4×4 = 16 marks)

5. Give the pharmacological basis for each of the following.

5A. Salbutamol in acute bronchial asthma.

5B. Probenecid along with penicillin G in gonorrhoea.

5C. Lignocaine and adrenaline combination as local anaesthetic.

5D. Protamine sulphate in heparin overdose.

5E. Domperidone as an antiemetic.

(2×5 = 10 marks)

6A. List four β blockers. Mention four uses of β blockers.

(2+2 = 4 marks)

6B. Name two angiotensin converting enzyme (ACE) inhibitors. Mention one clinical use with basis.

(1+2 = 3 marks)

6C. List three classes of diuretics with an example for each class.

(3 marks)

7A. List four anticancer drugs and Mention four general toxicities of anticancer drugs.

(2+2 = 4 marks)

7B. Name two parenteral iron preparations. Give two indications for parenteral iron therapy.

(1+1 = 2 marks)

8. Give one example and one therapeutic use for the following.

8A. Proton pump Inhibitors.

8B. Anti Muscarinic drugs.

8C. Calcium channel blockers.

8D. Glucocorticoids.

(1×4 = 4 marks)