

MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – JUNE 2010

SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)
(OLD REGULATION)

Monday, June 21, 2010

Time: 14:30 – 17:00 Hrs.

Maximum Marks: 80

1. Name two local anaesthetics and explain their mechanism of action. Mention various techniques for their administration and enlist their adverse effects.
(1+1+5+2 = 9 marks)
2. Classify drugs used in fungal infections with suitable examples. Outline the management of oral candidiasis. Add a note on the adverse effects of any one drug.
(5+2+2 = 9 marks)
3. **Answer the following:**
 - 3A. Explain two advantages and two disadvantages of transdermal route of drug administration.
 - 3B. Compare and contrast: pancuronium and succinylcholine.
 - 3C. Outline the treatment of H. pylori induced peptic ulcer.
 - 3D. Write two therapeutic indications and two adverse effects of sodium valproate.
 - 3E. Explain four indications for the use of metronidazole.
(4×5 = 20 marks)
4. **Write briefly on:**
 - 4A. Explain the basis for the use of pilocarpine in glaucoma. Mention two adverse effects.
(2+1 = 3 marks)
 - 4B. Explain the mechanism of action of frusemide. Mention two uses.
(2+1 = 3 marks)
 - 4C. Name three bronchodilators acting by different mechanisms used in bronchial asthma.
(3 marks)
 - 4D. Mention two uses of streptokinase. What precautions should be taken before its administration?
(1+2 = 3 marks)
 - 4E. Enumerate six adverse effects of prednisolone.
(3 marks)
 - 4F. Antiseptics
(3 marks)

5. **Write briefly on:**

5A. Name two nasal decongestants and explain their limitation.

(1+1 = 2 marks)

5B. Explain the term 'prophylactic dose' with an appropriate example.

(2 marks)

5C. Write two advantages of amlodipine over nifedipine.

(2 marks)

5D. Name the opiate drug used in the treatment of opiate dependence. Explain the basis for its use.

(2 marks)

5E. Which drug is used in the treatment of pernicious anaemia? Mention its route of administration and duration of treatment.

(1+½+½ = 2 marks)

5F. Name four first line drugs used in the treatment of tuberculosis.

(2 marks)

6. **Write briefly on:**

6A. Mention four drugs belonging to different groups used in congestive heart failure.

(2 marks)

6B. Loratadine.

(2 marks)

6C. Define zero order kinetics. Mention two examples.

(1+½+½ = 2 marks)

6D. Mention four drugs belonging to different groups used in angina pectoris.

(2 marks)

6E. Advantages of human insulin

(2 marks)

6F. Obtundents: define and give two examples.

(2 marks)



MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – JUNE 2010****SUBJECT: GENERAL AND DENTAL PHARMACOLOGY & THERAPEUTICS (ESSAY)
(NEW REGULATION)**

Saturday, June 19, 2010

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

- 1A. Define bioavailability. Explain various factors affecting drug bioavailability.
- 1B. Define drug antagonism. Explain different types of antagonisms with examples.
(5+5 = 10 marks)
- 2A. Explain mechanism of action, adverse effects and uses of metronidazole. Explain the interaction between alcohol and metronidazole.
- 2B. Name four macrolides. Explain mechanism of action, uses and adverse effects of any one.
(5+5 = 10 marks)
3. **Answer the following:**
- 3A. Write briefly on antiseptic and disinfectants in dental practice.
- 3B. Name two antithyroid drugs. Explain mechanism of action and adverse effects of any one.
- 3C. Explain mechanism of action, adverse effects and uses of salbutamol.
- 3D. List four drugs from different classes used in congestive heart failure. Explain the mechanism of action and adverse effects of digoxin.
- 3E. Name two beta blockers. Explain the rationale of using them in hypertension and glaucoma.
- 3F. Write briefly on metoclopramide.
- 3G. Write advantages and disadvantages of combining adrenaline with local anaesthetics.
- 3H. Name four atropine substitutes with uses. Explain the rationale of using atropine in organophosphorus poisoning.
- 3I. Write briefly on selective COX-2 inhibitors.
- 3J. Explain mechanism of action and uses of benzodiazepines.
(4×10 = 40 marks)



MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – NOVEMBER 2010

SUBJECT: GENERAL AND DENTAL PHARMACOLOGY & THERAPEUTICS (ESSAY)
(NEW REGULATION)

Tuesday, November 30, 2010

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ Answer ALL questions.

- 1A. Mention two antimicrobial combinations with an indication for use of each combination and explain the pharmacological basis for the same.
- 1B. Write briefly on general toxicities of anticancer drugs and methods to ameliorate them.
- 1C. Explain why tetracyclines are contraindicated in pregnancy.

(4+4+2 = 10 marks)

- 2A. Classify opioid analgesics.
- 2B. Explain the effects of morphine on central nervous system.
- 2C. Explain three therapeutically useful actions of aspirin.

(3+4+3 = 10 marks)

3. Answer the following:

- 3A. Write briefly on dentifrices.
- 3B. Explain the mechanism of action, uses and adverse effects of enalapril.
- 3C. Explain four factors modifying drug action.
- 3D. Name two beta blockers. Mention two uses of any one of them with basis for its use.
- 3E. Write briefly on styptics.
- 3F. Mention three advantages and three disadvantages of intravenous route. Name two drugs administered by this route.
- 3G. Write briefly on succinylcholine.
- 3H. Name four glucocorticoids. Explain why glucocorticoids should not be stopped abruptly after prolonged therapy.
- 3I. Name two H₁ blockers. Mention three uses and three adverse effects of them.
- 3J. Write briefly on metoclopramide.

(4×10 = 40 marks)



MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – NOVEMBER 2010

SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)
(OLD REGULATION)

Tuesday, November 30, 2010

Time: 14:30 – 17:00 Hrs.

Maximum Marks: 80

- 1A. Classify general anaesthetics with suitable examples.
1B. Write briefly on preanesthetic medication. (5+4 = 9 marks)
- 2A. Classify adrenergic receptor blockers with suitable examples.
2B. Explain two uses and two adverse effects of any one β blocker. (5+4 = 9 marks)
3. **Write briefly on:**
3A. Atracurium
3B. Heparin
3C. H_1 blockers
3D. Role of fluorides in dental practice
3E. Drug antagonism (4×5 = 20 marks)
4. **Answer the following:**
4A. Outline the treatment of status asthmaticus.
4B. Write briefly on uses of loop diuretics.
4C. Explain one use and two adverse effects of opioid analgesics.
4D. Mention three groups of antihypertensives with suitable examples.
4E. Outline the short course chemotherapy regimen in treatment of tuberculosis.
4F. Write briefly on sublingual route of drug administration. (3×6 = 18 marks)
5. **Write the rationale for:**
5A. Glucocorticoid therapy should not be abruptly discontinued.
5B. Probenecid is combined with penicillin.
5C. Glibenclamide is effective only in type 2 diabetes mellitus.
5D. Ranitidine in peptic ulcer
5E. Allopurinol in chronic gout
5F. Atropine in organophosphorus poisoning (2×6 = 12 marks)
6. **Mention two indications and two adverse effects of the following:**
6A. α Methyl dopa
6B. Gentamicin
6C. Parenteral iron preparation
6D. Cyclophosphamide
6E. Nifedipine
6F. Metoclopramide (2×6 = 12 marks)

