

MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – AUGUST 2008****SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)**

Monday, August 04, 2008

Time available: 14.30 – 17.00 Hours

Maximum Marks: 80

- 1A. Enumerate six different parenteral routes of drug administration.
1B. Give three advantages and three disadvantages of oral route.
1C. Write briefly on how AGE as a factor modifies drug action.
(3+3+3 = 9 marks)
- 2A. Enumerate four aminoglycoside antibiotics.
2B. Explain the common properties shared by aminoglycosides.
2C. Explain the rationale for combining penicillin with aminoglycoside in subacute bacterial endocarditis.
(2+3+2 = 7 marks)
- 3A. Classify local anaesthetics based on duration of action.
3B. Explain the basis for combining adrenaline with lignocaine.
3C. Explain two techniques of local anesthesia.
(3+2+2 = 7 marks)
4. Giving the drug of choice explain the pharmacological basis for the following:
4A. Myasthenia gravis.
4B. Bronchial asthma.
4C. Heparin overdosage.
4D. Hepatic encephalopathy.
4E. Acute anginal attack.
(3×5 = 15 marks)
5. Give reasons for the following:
5A. Propranolol should not be used in asthmatics.
5B. Low dose aspirin in myocardial infarction.
5C. Combination of amiloride and hydrochlorothiazide in hypertension.
5D. Combination of trimethoprim with sulfamethoxazole.
5E. Glucocorticoids should not be stopped abruptly after prolonged use.
(2×5 = 10 marks)

6. Write briefly on:
- 6A. Fluorides in dentistry.
 - 6B. Succinylcholine.
 - 6C. Uses and adverse effects of digoxin.
 - 6D. Differences between diazepam and phenobarbitone.
 - 6E. Mechanism of action and adverse effects of glibenclamide.
 - 6F. Methods to ameliorate anticancer drug toxicity.

(4×6 = 24 marks)

7. Define the following terms with two examples for each:
- 7A. Tachyphylaxis.
 - 7B. Superinfection.
 - 7C. Astringent.
 - 7D. Prokinetic.

(2×4 = 8 marks)



MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – MAY / JUNE 2008****SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)**

Monday, June 02, 2008

Time available: 14.30 – 17.00 Hours

Maximum Marks: 80

- 1A. Mention four injectable routes of drug administration with an example of a drug given by each route.
- 1B. Mention two advantages of sublingual route.
- 1C. Define drug synergism. Explain with a suitable example.

 $((2+2)+1+(1+2) = 8 \text{ marks})$

- 2A. Classify anticholinergic drugs with two examples for each class.
- 2B. Mention two uses and two adverse effects of any one of them.

 $(4+2 = 6 \text{ marks})$

3. Mention a condition for the use of the following drugs and explain the basis/mechanism for its use.
- 3A. Salbutamol.
- 3B. Succinylcholine.
- 3C. Glibenclamide.
- 3D. Nitroglycerine.

 $(3 \times 4 = 12 \text{ marks})$

- 4A. Mention two different classes of drugs used in the treatment of peptic ulcer with two examples for each class.
- 4B. Mention four preparations of vitamin D. Mention two uses of Vitamin D.
- 4C. List four preparations of glucocorticoids. Mention two uses and two adverse effects of glucocorticoids.
- 4D. Mention four macrolide antibiotics. Mention two uses of any one of them.

 $(3+3+4+3 = 13 \text{ marks})$

5. Write briefly on:
- 5A. Mummifying agents.
- 5B. Uses and adverse effects of aspirin.
- 5C. Thiopentone sodium.
- 5D. General toxicity of anticancer drugs.

 $(4 \times 4 = 16 \text{ marks})$

6. Name two drugs belonging to the group mentioned below. Mention two indications for the use of any one drug in each group.

6A. Parenteral iron.

6B. Alpha agonists.

6C. Calcium channel blockers.

6D. Fibrinolytics.

6E. Benzodiazepines.

(2×5 = 10 marks)

7. Explain the pharmacological basis for the following:

7A. Vitamin B₁₂ in pernicious anemia.

7B. The combination of hydrochlorothiazide and amiloride in hypertension.

7C. Combination of drugs in tuberculosis.

7D. Domperidone in vomiting.

7E. Codeine in unproductive cough.

(2×5 = 10 marks)

8. Mention the drug of choice for the following conditions with route of administration.

8A. Tetany.

8B. Leprosy.

8C. Acute opioid poisoning.

8D. Ulcerative gingivitis.

8E. Oral candidiasis.

(1×5 = 5 marks)

