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MANIPAL UNIVERSITY

SECOND BDS DEGREE EXAMINATION – MAY 2009

SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)

Monday, May 25, 2009

Time: 14.30 – 17.00 Hrs.

Maximum Marks: 80

1. Define biotransformation. Discuss three factors affecting biotransformation.
(1+6 = 7 marks)

- 2A. Classify β blockers.
- 2B. Mention two uses of β blockers with basis for each use
(3+4 = 7 marks)

- 3A. Classify opioid analgesics.
- 3B. Explain central effects of prototype drug.
(3+3 = 6 marks)

4. Name two fluoroquinolones. Explain the mechanism of action, two uses and two adverse effects of any one of them.
(1+3 = 4 marks)

5. **Write briefly on:**
 - 5A. Mannitol
 - 5B. Glyceryltrinitrate
 - 5C. Ketamine
 - 5D. Mummifying agents(5×4 = 20 marks)

6. **Mention two uses and two adverse effects of the following drugs.**
 - 6A. Enalapril.
 - 6B. Metoclopramide.
 - 6C. Hydrocortisone.
 - 6D. Doxycycline.(2×4 = 8 marks)

7. **Giving an indication explain the pharmacological basis/ mechanism of action for the use of following drugs.**

- 7A. Metformin
- 7B. Warfarin
- 7C. Sodium cromoglycate
- 7D. Sodium bicarbonate
- 7E. Penicillin G

(2×5 = 10 marks)

8. **Explain the following terms with suitable example.**

- 8A. Prodrug
- 8B. Sequential blockade
- 8C. Tachyphylaxis
- 8D. Expectorants
- 8E. Binding agents

(2×5 = 10 marks)

9. **Answer the following:**

- 9A. Antacids should not be combined with sucralfate.
- 9B. Indications for parenteral iron.
- 9C. Explain why aspirin is contraindicated in patients with peptic ulcer.
- 9D. Explain the basis for combining penicillin with gentamicin.

(2×4 = 8 marks)



MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – NOV/DEC 2009****SUBJECT: GENERAL AND DENTAL PHARMACOLOGY (ESSAY)**

Wednesday, December 02, 2009

Time: 14.30 – 17.00 Hrs.

Maximum Marks: 80

- 1A. Classify opioid analgesics with suitable examples.
1B. Explain a therapeutically useful pharmacological action of the prototype opioid.
1C. Mention the drug used in paracetamol poisoning and explain the basis for the same.
(4+2+2 = 8 marks)
- 2A. Mention two antimicrobial combinations with an indication for the use of each and explain the pharmacological basis for the same.
2B. Explain why tetracyclines are contraindicated in pregnancy.
(5+2 = 7 marks)
- 3A. Define fixed dose combination. Mention two advantages and two disadvantages of fixed dose combination.
3B. Mention three advantages and three disadvantages of intravenous route of drug administration.
(3+3 = 6 marks)
- 4A. Mention three groups of drugs used in angina pectoris with an example for each group.
4B. Explain the mechanism of action of any one of the antianginal drugs.
(3+2 = 5 marks)
- 5A. Enumerate four shared properties of aminoglycosides.
5B. Name two anticancer drugs. Mention the general toxicities of anticancer drugs.
(2+4 = 6 marks)
- 6A. Write briefly on dentifrices.
6B. Define astringent. Mention two examples.
(4+2 = 6 marks)
7. Mention an indication for the use of the following drugs and explain the basis for the same.
7A. Neostigmine
7B. Salbutamol
7C. Adrenaline with lignocaine
7D. Ethyl alcohol

(3×4 = 12 marks)

8. Write briefly on:

8A. Metoclopramide

8B. Succinylcholine

8C. Vitamin D

8D. Preanesthetic medication

8E. Enalapril

(4×5 = 20 marks)

9. Explain the following terms with a suitable example

9A. Tolerance

9B. Hematinic

9C. Iatrogenic disease

9D. Chemoprophylaxis

9E. Fibrinolytics

(2×5 = 10 marks)

