

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)



MANIPAL ACADEMY OF HIGHER EDUCATION

(Deemed University)

SECOND BDS DEGREE EXAMINATION – AUGUST 2005**SUBJECT: GENERAL PATHOLOGY AND MICROBIOLOGY (ESSAY)**

Wednesday, August 10, 2005

Time available: 14.30 – 17.00 Hours

Maximum Marks: 80

≠ ANSWER SECTION A & B IN TWO SEPARATE ANSWER BOOKS**≠ Draw diagrams wherever appropriate****SECTION “A”: GENERAL PATHOLOGY: 40 MARKS**

1. Define thrombosis. What is “Virchow’s triad” in the pathogenesis of thrombosis? List the differences between arterial and venous thrombi. Discuss fate of thrombus.

(1+3+3+3 = 10 marks)

2. Write short notes on the following:

- 2A. Factors influencing wound healing.
2B. Actinomycosis.
2C. Pleomorphic adenoma.
2D. Laboratory diagnosis of idiopathic thrombocytopenic purpura.
2E. Definition and types of necrosis.
2F. Spread of tumours with examples.

(5×6 = 30 marks)

SECTION “B”: MICROBIOLOGY: 40 MARKS

3. Define Sterilization. Classify methods of sterilization. Describe in detail sterilization by autoclave.

(2+2+6 = 10 marks)

4. Write short notes on:

- 4A. Life cycle of Plasmodium vivax.
4B. Bacterial spore.
4C. DPT.
4D. Viridans streptococci.
4E. Universal safety precautions.
4F. Laboratory diagnosis of gonorrhoea.

(5×6 = 30 marks)

