

G 8173

(Pages : 2)

121

Reg. No.....

Name.....

SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, APRIL 2008

PHARMACOLOGY—Paper I

Time : One Hour and a Half

Maximum : 32 Marks

*Answer Sections A-II and B in separate answer-books.
Draw diagrams wherever necessary.*

Section A-II

III. Draw a schematic diagram of serotonergic neurotransmission and mark the site of action of :

- 1 Fluoxetine.
- 2 Reserpine.
- 3 Sumatriptan.

($\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 2$ marks)

IV. Define the following terms with *two* examples each :

- (A) Tachyphylaxis.
- (B) Orphan drug.
- (c) Drug Synergism.
- (D) Idiosyncrasy.

(4 × 1 = 4 marks)

V. Write short notes on :

- 1 Bioassay.
- 2 Special Drug Delivery Systems.
- 3 Beta blockers.

(3 × 2 = 6 marks)

Section B

VI. A 40-year old man was given an injection of benzyl penicillin for acute respiratory infection. Immediately he collapsed. On examination he had sweating, pulse feeble and rapid. B.P. 90/60 mm Hg. Had bronchospasm and laryngospasm.

- 1 What is your Diagnosis ? Write the drug of choice with its dosage schedule.
- 2 Describe the rationale of using the above drug ?
- 3 What precaution to be taken to prevent such a complication ?
- 4 Write *two* other important uses of the drug with its mechanism of action.
- 5 Write *two* important adverse effects and *two* contraindications.
- 6 List four selective beta 2 agonists used as bronchodilators.

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

Turn over

VII. Write the Pharmacological basis of the following :—

- 1 Naloxone in acute morphine poisoning.
- 2 Glycopyrrolate as preanaesthetic agent.
- 3 Nitroglycerine in acute angina pectoris.
- 4 Losartan as antihypertensive.

(1 × 4 = 4 marks)

VIII. Write short notes on :

- 1 Streptokinase.
- 2 Mannitol.
- 3 Vasopressors in shock.
- 4 Risperidone.

(2 × 4 = 8 marks)