

Date: 01-04-2016

GDV 2805

Second Year MBBS Examination

II MBBS Pharmacology Paper 1

Time: 2 hours

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

Section 1

Max Marks: 40

1. MCQ (10)

a) Adminisiention of antacid reduces action of the following antiulcer agent: a) Omeprazole b) Sucralfate c) Misoprostol d) Pirenzepine

b) Which one of the following statements, about the metabolism of local anesthetics is incorrect? a) Metabolism of local anesthetics occurs at the site of administration

b) Metabolism, occurs in the plasma or liver but not at the site of administration c) Ester group of anesthetics like procaine, are metabolized systematically by pseudocholinesterase d) Amides such as lidocaine, are metabolized in the liver by microsomal mixed function oxidases.

c) Therapeutic drug monitoring is done for all EXCEPT a) High safety margin drugs b) Toxic drugs (C) Failure to response d) For patient compliance

d) Which receptor is not a type of GPCR (G-protein coupled receptor)? (A) Muscarinic Receptors (B) Nicotinic Receptors c) alpha Receptors d) Beta Receptor

e) The mechanism of action of vigabatrin: (A) Direct action on the GABA receptor-chloride channel complex (B) Inhibition of GABA aminotransferase c) NMDA receptor blockade via the glycine binding site (D) Inhibition of GABA neuronal reuptake

f) Sumatriptan is a: (A) 5 HT_{1D1B} antagonist. (B) 5 HT_{181C} agonist C) 5 HT_{1A1D} antagonist D) 5 HT_{181D} agonist

g) Which antidepressant is a nonselective

MAO inhibitor? (A) Moclobemide (B) Fluoxetine
(C) Tranyleypromine (D) Selegiline

h) Which of the following statements concerning the anti-inflammatory effect of NSAIDs are true? (A) Anti-inflammatory effect of NSAIDs results from inhibition of cyclooxygenase (B) Anti-inflammatory effect of NSAIDs results from inhibition of phospholipase A₂ → and reducing prostaglandin and leukotriene synthesis (C) Anti-inflammatory effect of NSAIDs results from induction of cyclooxygenase II expression which results in reducing the amount of an enzyme available to produce prostoglandins (D) All of the above

i) Toxicity of digitalis is increased by (A) Hypokalemia (B) Hyperkalemia (C) Hypermagnesemia (D) Hypocalcemia

j) Amiloride cause hyperkalemia due to its action on: (A) Electronic K⁺ channels (B) Electronic Na channels (C) Non electronic Kt-Cl symporter (D) Ht "Kt ATPase

Section 2

2. short notes on: (two out of three) (10)

a) treatment of methanol poisoning

b) Treatment of paracetamol poisoning

c) Pharmacotherapy of chronic gout

3. Write briefly on: (four out of five) (10)

a) Prostaglandins: analogues used in glaucoma

b) Potassium channel openers

c) Enzyme Induction

d) Centrally acting muscle relaxants

e) COMT inhibitors

4. Write short notes on: (two out of three) (10)

a) Central sympatholytics

b) Receptor antagonism

c) Atypical antipsychotics
