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Rajiv Gandhi University of Health Sciences, Karnataka MBBS Phase - II (CBME) Degree Examination - 06-Dec-2024

Time: Three Hours Max. Marks: 100

PHARMACOLOGY - PAPER I (RS-4) Q.P. CODE: 1028

(QP contains two pages)

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary

LONG ESSAYS 2 x 10 = 20 Marks

 Define Bioavailability. Discuss the factors affecting bioavailability of a drug administered orally.

- A forty-five-year-old farmer was brought to the hospital with breathlessness, lacrimation, bowel and bladder incontinence. A diagnosis of Organophosphorous poisoning was made.
 - a) Outline the management of this patient.
 - Mention the specific antidotes useful in this patient and explain the rationale of using them

SHORT ESSAYS 8 x 5 = 40 Marks

- 3. What is microsomal enzyme induction? Explain its consequences with any two examples
- Mention any three Atropine substitutes and explain their therapeutic uses
- Write the mechanism of action and therapeutic uses of Benzodiazepines
- 6. Write the mechanism of action, adverse effects and therapeutic uses of Sodium Valproate
- Discuss the various techniques of local anaesthesia
- A 25-year-old computer engineer presents with episodes of unilateral pulsatile headache preceded by photophobia and vomiting for the past few months. A diagnosis of Migraine was made. She was prescribed Sumatriptan. Explain the mechanism of action and contraindications for Triptans
- A 52-year-old lady, a known asthmatic presents to the hospital with acute breathlessness and wheeze. A diagnosis of Status asthmaticus (Acute severe asthma) was made. Discuss the pharmacotherapy of Status asthmaticus (Acute severe asthma)
- Write the mechanism of action and therapeutic uses of Omeprazole

SHORT ANSWERS 10 x 3 = 30 Marks

- What is Teratogenicity? Mention two drugs causing teratogenicity with their teratogenic effects
- List three classes of drugs with a suitable example for each used in Chronic simple (open angle) Glaucoma
- Write three advantages of Selective serotonin reuptake inhibitors over Tricyclic antidepressants
- 14. Write the rationale of using Morphine in acute left ventricular failure
- Aspirin causes gastric mucosal damage. Explain
- Name three Antitussives
- Rationale of using Ondansetron in cancer chemotherapy induced vomiting
- Mention three advantages of Halothane as general anaesthetic agent
- Name three drugs obtained from plant sources
- 20. List three uses of Dimercaprol



Rajiv Gandhi University of Health Sciences, Karnataka 10 x 1 = 10 Marks

Multiple Choice Questions

- 21 i) The therapeutic index of a drug indicates its
 - A. Safety
 - B. Efficacy
 - C. Potency
 - D. All of the above
- 21 ii) Which of the following drug undergoes Hofmann elimination?
 - A. Atracurium
 - B. Pancuronium
 - C. Vecuronium
 - D. Rocuronium
- 21 iii) The mydriatic with quickest and briefest action is
 - A. Atropine
 - B. Homatropine
 - C. Cyclopentolate
 - D. Tropicamide
- 21 iv) Ethanol is administered in methanol poisoning to
 - A. Correct acidosis caused by formic acid
 - B. Prevent seizures due to methanol
 - C. Compete with methanol for alcohol dehydrogenase
 - Increase generation of formaldehyde
- The agent which can reverse the sedative action of Benzodiazepines is 21 v)
 - A. Caffeine
 - B. Doxapram
 - C. Acetyl cysteine
 - D. Flumazenil
- The standard drug therapy for Parkinson's disease is 22 i)
 - A. Pyridoxine
 - B. Dopamine
 - C. Levodopa + Carbidopa
 - D. Dopamine + Pyridoxine
- 22 ii) The prostaglandin analogue used in Peptic ulcer disease is
 - A. Misoprostol
 - B. Carboprost
 - C. Latanoprost
 - D. Travoprost
- 22 iii) The class of drug NOT used in the treatment of bronchial asthma is
 - A. Beta 2 agonists
 - B. Corticosteroids
 - C. Methylxanthines
 - D. Cholinesterase inhibitors
- 22 iv) Oral rehydration therapy has one of the following beneficial effects
 - A. Stops diarrhoea
 - Restores hydration and electrolyte balance
 - C. Hastens the clearance of enteropathogens
 - D. Avoids the need for specific antimicrobial therapy
- 22 v) Drug used in treatment of scorpion sting is
 - A. Pralidoxime
 - B. Pramipexole
 - C. Prazosin
 - D. Propylthiouracil

