MBBS Phase - II (CBME) Degree Examination - 02-Mar-2022

Time: Three Hours Max. Marks: 100 Marks

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

- A 42 years old farmer was brought to casualty with symptoms of irritation of eyes, lacrimation, excessive salivation, blurring of vision, breathlessness, involuntary defecation and urination. Based on these symptoms physician made a diagnosis of acute organophosphorous compound poisoning.
 - a) Discuss the management of Organophosphorous Poisoning
 - Enumerate the uses of reversible anticholinesterases

SHORT ESSAYS 8 x 5 = 40 Marks

- Drug Synergism with examples
- 4. Advantages and Four uses of Cardioselective beta blockers
- 5. Mechanism of action, adverse effects and uses of Phenytoin
- 6. Pharmacological actions and uses of Aspirin
- Mention two groups of drugs used as bronchodilators with examples. Describe their mechanism of action.
- Mention Four atypical antipsychotics. Describe their advantages over conventional antipsychotics.
- A 70 year old patient suffering from Lung carcinoma with metastases is requesting for analgesics. The doctor decided to prescribe Morphine for pain relief.
 - a) Explain the mechanism of analgesic action of morphine in this patient.
 - b) Mention the contraindications for Morphine.
- A 55 year old patient complained of dyspepsia and epigastric pain since a month. He underwent endoscopy which confirmed H.Pylori positive peptic ulcer. The physician prescribed anti H.Pylori regimen. Write any two anti H Pylori drug regimens.

SHORT ANSWERS 10 x 3 = 30 Marks

- Define Tachyphylaxis. Mention two drugs exhibiting it
- Advantages of Domperidone over Metoclopramide
- Mention three techniques of administering Local Anaesthetic agents with one indication for each technique
- Mention three drugs used for pre-anaesthetic medication
- Rationale of using Dantrolene in Malignant Hyperthermia
- Rationale of using Methotrexate in Rheumatoid arthritis
- Rationale of using Adrenaline in Anaphylactic shock
- Rationale of using Montelukast in Bronchial asthma
- Write three rational Fixed dose combination of drugs
- Mention three uses of d-Penicillamine



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Multiple Choice Questions

10 x 1 = 10 Marks

- Low dose of aspirin prolongs bleeding time by selectively inhibiting synthesis of following mediator in the platelets
 - A. Thromboxane
 - B. 5-Hydroxytryptamine
 - C. Platelet activating factor
 - D. Prostacyclin
- 21 ii) Which of the following drug causes Tolerance
 - A. Adrenaline
 - B. Morphine
 - C. Dopamine
 - D. Isoprenaline
- 21 iii) Which of the following is a prodrug of adrenaline used topically in glaucoma
 - A. Brimonidine
 - B. Dipivefrine
 - C. Dorzolamide
 - D. Timolol
- 21 iv) Receptor agonist exhibits
 - Affinity, but no intrinsic activity
 - B. Intrinsic activity, but no affinity
 - C. Both affinity and intrinsic activity
 - Neither affinity nor intrinsic activity
- The following mydriatic does not produce cycloplegia
 - A. Phenylephrine
 - B. Tropicamide
 - C. Cyclopentolate
 - D. Homatropine
- 22 i) Bronchodilator which requires Therapeutic drug monitoring is
 - A. Salbutamol
 - B. Theophylline
 - C. Formeterol
 - D. Ipratropium Bromide
- 22 ii) Primary mechanism of action of diazepam is
 - A. Dopamine antagonism
 - B. Adenosine antagonism
 - C. GABA facilitatory action
 - D. 5-HT antagonism
- 22 iii) Which of the following is not useful in treating drug induced Parkinsonism
 - A. Levodopa
 - B. Biperiden
 - C. Procyclidine
 - D. Trihexyphenidyl
- 22 iv) Local anaesthetics act by blocking neuronal
 - A. Sodium channel
 - B. Calcium channel
 - C. Chloride channel
 - D. Potassium channel
- 22 v) Purgative used in the management of hepatic encephalopathy is
 - A. Bisacodyl
 - B. Liquid Paraffin
 - C. Methylcellulose
 - D. Lactulose

