



N-2006000102030001

Second Year M. B. B. S. Examination

June / July - 2021

Pharmacology : Paper - I

Time : 2 Hours]

[Total Marks : 40

Instructions :

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરપત્રી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book. Name of the Examination : Second Year M. B. B. S. Name of the Subject : Pharmacology : Paper - I Subject Code No. : 2 0 0 6 0 0 0 1 0 2 0 3 0 0 0 1		Seat No. : <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>						
Section No. (1, 2,...): 1&2		Student's Signature						

SECTION - I

- 1 Answer the following. 1×10=10
- Mention two important consequences of microsomal enzyme induction.
 - Write the drug of choice, its route and time of administration in motion sickness in long journey.
 - Write two differences between Physostigmine and Neostigmine.
 - What is placebo? Mention two uses of Placebo.
 - Why Diazoxide is given as I/V bolus in hypertensive emergency rather than I/V infusion?
 - Justify rationale of using FDC of (fixed dose combination) Aluminum hydroxide with Magnesium hydroxide antacid.
 - Explain with example how knowledge of Vd (Volume of distribution) can be helpful in case of overdose of drugs in therapeutics?
 - Name two drugs from different classes useful for prophylaxis of Migraine.
 - Mention one clinically important advantage and one disadvantage of recombinant tissue plasminogen Activator (rTPA).
 - Why is Codeine not recommended for symptomatic treatment of productive cough?

N-2006000102030001]

1

[Contd...

- 2 Answer any four of the following. 2×4=8
- (a) What is Prodrug? What are the advantages of using Prodrugs? Give two examples of Pro-drugs.
 - (b) Mention the mechanism of action and advantages of Low Molecular Weight heparins.
 - (c) Explain "coronary steal" phenomenon in relation with angina and name one drug causing this phenomenon.
 - (d) Give two reasons responsible for importance of Zinc supplementation in pediatric diarrhea.
 - (e) Explain advantages and disadvantages of sublingual route and I/V route of drug administration.

SECTION - II

- 3 Answer any four of the following. 3×4=12
- (a) Describe the cardiovascular actions and uses of dopamine. Compare these aspects of dopamine with Dobutamine.
 - (b) Enlist drugs used in congestive cardiac failure. Describe mechanism of action and adverse effect of digoxin.
 - (c) Classify various drugs useful for chronic bronchial asthma. Describe the mechanism of action, mode of administration and limitation of beta -2 agonists.
 - (d) Enlist drugs useful in treatment of glaucoma. Explain in detail management of acute narrow angle glaucoma.
 - (e) Classify various drugs from different categories for acid peptic disease. Describe mechanism of action and important side effects of any one class of the drug.
- 4 Answer any two of the following. 5×2=10
- (a) Classify various anticholinergic agents. Describe pharmacological actions, therapeutic uses and side effects of anticholinergic drugs, with reference to cardiovascular, gastrointestinal and ocular system.
 - (b) Describe various factors modifying drug action with examples of each. Describe in detail therapeutic implications of Pharmacogenetics.
 - (c) Classify various drugs from different categories for hypertension. Describe mechanism of action, contraindications, and adverse effects of the Angiotensin Converting Enzyme Inhibitors (ACEI).