

N-2006000102030001

Second Year M. B. B. S. Examination

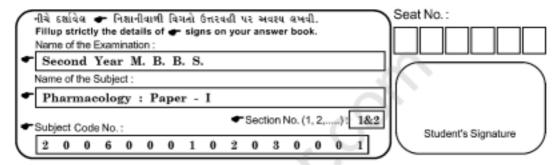
June / July - 2021

Pharmacology: Paper - I

Time: 2 Hours] [Total Marks: 40

Instructions :

(1)



SECTION - I

Answer the following.

 $1 \times 10 = 10$

- (a) Mention tvvo important consequences of microsomal enzyme induction.
- (b) Write the drug of choice, its route and time of administration in motion sickness in long journey.
- (c) Write two differences between Physostigmine and Neostigmine.
- (d) What is placebo? Mention two uses of Placebo.
- (e) Why Diazoxide is given as I/V bolus in hypertensive emergency rather than I/V infusion?
- (f) Justify rationale of using FDC of (fixed dose combination) Aluminum hydroxide with Magnesium hydroxide antacid.
- (g) Explain with example how knowledge of Vd (Volume of distribution) can be helpful in case of overdose of drugs in therapeutics?
- (h) 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).
- (j) Why is Codeine not recommended for symptomatic treatment of productive cough?

N-20060001020300011

1

[Contd...

2 Answer any four of the following.

- $2 \times 4 = 8$
- (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.

- $3 \times 4 = 12$
- (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.

 $5 \times 2 = 10$

- (a) Classify various anticholinergic agents. Describe pharmacological actions, therapeufic 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).

N-20060001020300011

9

[120]