

M. D. (Pharmacology) Examination

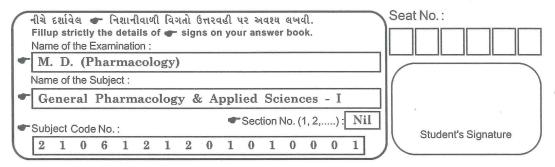
June/July - 2021

General Pharmacology & Applied Sciences: Paper - I

Time: 3 Hours]

[Total Marks: 100

Instruction:



- Explain in detail about various mechanisms by which drugs produce their action by giving suitable examples.
- 2 Describe each of the following:

30

- (a) Pharmacogenomics.
- (b) Issues and challenges faced while prescribing for geriatric population.
- 3 Write notes on:

- (a) Role of Placebo
- (b) Saturation kinetics
- (c) Enterohepatic circulation.



M. D. Examination

June/July - 2021

Pharmacology: Paper - II (Systemic Pharmacology, Chemotherapy & Therapeutics)

Time: 3 Hours]

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- Discuss in details about the pharmacology, clinical status and limitations of both old and new drugs used in the treatment of Malaria.
- 2 Describe each of the following:

30

- (A) Nosocomial infections
 - (B) Treatment of MDR tuberculosis.
- 3 Write notes on:

- (A) Protease inhibitors
- (B) Non-endocrine uses of corticosteroids
- (C) Drugs used in Gout.



M. D. Examination

June/July - 2021

Pharmacology: Paper - III (Experimental Pharmacology, Bioassay, Biostatistics & Systemic Pharmacology)

Time: 3 Hours]

[Total Marks: 100

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- Describe various animals models/techniques/instruments 40 used for evaluation of anti-inflammatory drugs.
- 2 Describe each of the following:

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- (A) CPCSEA guidelines
- (B) Bioassay in experimental animals
- 3 Write notes on:

- (A) Non-parametric tests of significance
- (B) Sample size determination
- (C) Drugs used in the treatment of inflammatory bowel disease



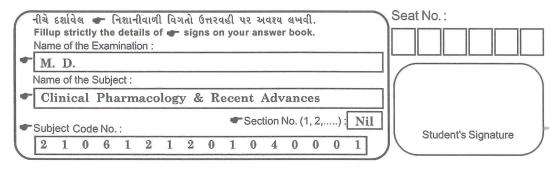
M. D. Examination

June/July - 2021

Clinical Pharmacology & Recent Advances

Time: 3 Hours] [Total Marks: 100

Instruction:



- 1 Write in detail about essential documents required for conducting a clinical trial.
- 2 Describe each of the following:

30

- (A) Study designs
- (B) Discuss recent advances in drug therapy of Diabetes Mellitus
- 3 Write notes on:

- (A) Confidence interval
- (B) Microdosing
- (C) Endothelin receptor agonists and antagonists