

M. PHARM.
(SEM II) THEORY EXAMINATION 2017-18
CLINICAL PHARMACOLOGY

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt *all* questions in brief. 2 x 10 = 20**

- a. Write about the scope of Clinical Pharmacology.
- b. Write a short note on Sampling methods in cohort studies.
- c. Explain the pharmacological basis of Salbutamol in bronchial asthma.
- d. Discuss the role of diuretics in management of hypertension.
- e. Write adverse effects of prolonged glucocorticoid therapy.
- f. Write a short note on drug allergy.
- g. Name two drugs producing hypersensitivity reaction.
- h. Write adverse effects of phenytoin.
- i. Explain the rationale for Vit.B₆ with isoniazid in tuberculosis.
- j. Define term superinfection with suitable example.

SECTION B**2. Attempt any *three* of the following: 10 x 3 = 30**

- a. Explain various approaches for determination of dose and dosing intervals in Pediatric patients.
- b. Define diabetes-mellitus. Write down the pharmacology of oral hypoglycaemic agents.
- c. Provide a brief summary of the role of the innate immune system in defense against invading pathogens.
- d. Write a detailed note on hypersensitivity reactions.
- e. Write a detailed note on mechanism of resistance by microorganisms towards the antimicrobial agents.

SECTION C**3. Attempt any *one* part of the following: 10 x 1 = 10**

- (a) Define drug discovery and development. Explain in detail the various stages in the modern drug discovery pipeline in a pharmacological perspective.
- (b) Discuss the role and clinical significance of genetic polymorphism in drug transports and drug targets with suitable examples.

4. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Justify the use of Calcium channel blockers, organic nitrates and K⁺ channel openers in angina pectoris?
- (b) Classify the drugs used in peptic ulcer. Mention the mechanisms of action of the various groups of drugs. Write down the anti H. pylori regimens.

5. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Describe the strategies for the prevention and treatment of renal transplant rejection.
 - (b) Describe the pharmacology of immunostimulants.
6. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) List out the indications for TDM. Explain the necessity and process of TDM in patients receiving digoxin.
 - (b) Define Adverse drug reaction (ADR) and classify an ADR with suitable examples.
7. **Attempt any *one* part of the following:** **10 x 1 = 10**
- (a) Define antibiotics. Discuss general principles of chemotherapy.
 - (b) Classify anti-Tubercular. Give an account on treatment of Tuberculosis.