Printed Pages: 02 **Sub Code: PHAR 534**

Paper Id: | 2 | 5 | 0 | 2 | 0 | 9 | **Roll No.** | | | | | | | | | | |

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.B_6 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 I = 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.

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5. **Attempt any *one* part of the following:** **10 x I = 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.

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