

**DEPARTMENT OF PHARMACOLOGY
SUBHARTI MEDICAL COLLEGE, MEERUT**

**MD PHARMACOLOGY
Pre-University May 2016**

Paper – I

General Pharmacology Principles & Allied Sciences

Time : 3 hrs.

M.M=100

1. Describe basic concepts regarding dose schedules of drugs based on the pharmacokinetics principles? (10)
2. Discuss the principles of safe and effective antibacterial drug therapy & their combinations. (10)
3. How drugs act on a living organism discuss. (10)
4. Explain the cell-cycle. Discuss the clinical implications of the drugs acting on different phases of cell cycle. (10)
5. Give drug modulation at Renin-angiotension system? (10)
6. Write short notes on – (10x5)
 - a) Pharmacogenomics
 - b) Therapeutic drug monitoring
 - c) Fixed- dose drug combination
 - d) P glycoprotein
 - e) Targeted drug delivery

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Paper – II

Systemic Pharmacology, Chemotherapy & Therapeutics

Time : 3 hrs.

M.M=100

- Q.1 Discuss the clinically used drugs modifying the central excitatory neurotransmitters? (10)
- Q.2 Discuss the role of monoclonal antibodies in pharmacotherapeutics? (10)
- Q.3 Discuss in detail the analgesic action at various receptors & various routes of administration of opioids analgesics? (10)
- Q.4 Describe the pharmacotherapy of Glaucoma? (10)
- Q.5 Write short notes on- (2x10)
a) Hypertensive emergencies
b) Spasmolytic drugs
- Q.6 Describe the mechanism of action, spectrum & clinical uses of different generation of cephalosporins? (10)
- Q.7 Role of nitric oxide in health and diseases? (10)
- Q.8 Write short notes on – (2x10)
a) Sodium channel Blocking agents
b) Resistance in T.B.

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MD 2013 (Pre-University Examination)
Paper – III

Time : 3 hrs.

M.M=100

1. Discuss various methods used to assess a substance having potential of possessing
 - a) Analgesic activity
 - b) Anti-depressant activity(15x2=30)
2. Write in brief on common anesthetics used in experimental pharmacology. (10)
3. What are principles of working of chromatography & discuss their uses. (20)
4. Write briefly on –
 - a) Non-parametric tests
 - b) Null hypothesis
 - c) Randomization
 - d) Albino rat as experimental animal(10x4=40)

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MD 2013 (Pre-University Examination)
Paper – IV

Time : 3 hrs.

M.M=100

1. Discuss schedule Y of drugs & cosmetic act. (20)
2. Write about Helsinki's declaration. (10)
3. What are ICH-GCP guidelines? (20)
4. Write briefly on –
 - a) Newer beta -2 agonists
 - b) Novel drugs for glaucoma
 - c) Components of application for Investigation New drug
 - d) New targets for vascular dysfunction in CHF
 - e) New oral anticoagulants, anti-platelet agents(10x5=50)