

DEPARTMENT OF PHARMACOLOGY

SMC

MD 2014 BATCH

Pre-university examination

Paper I

Date 20.4.17

Time—3hrs

M.M.100

Note- attempt all questions

Write in brief on following---

1. Chronopharmacology
2. Orphan receptors
3. Biologics and biosimilars
4. Pathophysiology of depression and basis for use of various group of drugs
5. Various mydriatics used in therapeutics, their mechanism of action, advantages and disadvantages
6. Enterohepatic circulation of drugs and its clinical importance
7. Some wonder discoveries in Pharmacology
8. Clearance of a drug
9. Design and optimization of dosage regimens
10. Anticholinergic agents

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Paper II

Date: 22.4.17

Time—3hrs

M.M.100

Note- attempt all questions

Write short notes on following—

1. List antimicrobial agents according to TDK, CDK, post antibiotic effect
2. Drug therapy of *P. vivax* malaria
3. List important anti-cancer drugs, discuss mechanism of action of alkylating agents.
4. HAART (highly active anti-retroviral therapy) with special emphasis on boosted PI regimen
5. Differentiate between barbiturates and benzodiazepines
6. Insulin therapy in type I diabetes mellitus
7. Pharmacotherapy of gout
8. Anti-platelet drugs and their clinical status
9. Pharmacotherapy of alcoholism
10. Drugs used in osteoporosis

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Paper III**

Date: 24.4.17

Time—3hrs

M.M.100

Note- attempt all questions

Discuss briefly---

1. Methods of screening of a drug possessing potential—
 - a) Anti-fertility activity
 - b) Affecting learning and memory
2. Nictitating membrane of cat as experimental tool
3. Some standard isolated muscle preparations
4. Ethical considerations while conducting experiments on animals
5. Parametric tests
6. Randomization
7. Working principle of colorimeter and its uses
8. Albino rabbit as experimental animal
9. Advantages and disadvantages of computer assisted learning (CAL)
software for experimental pharmacology at postgraduate level

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Paper IV

Date: 26.4.17

Time—3hrs

M.M.100

Attempt all questions

Write in brief---

1. Preclinical toxicity studies
2. Computer aided drug discovery
3. Biovigilance, materiovigilance
4. Declaration of Helsinki
5. Cangrelor, Dexmedetomidine, Diacerin, Rifaximin (5 marks each=20)
6. NO(nitric oxide) in health and disease
7. Application for Investigational new drug (IND)
8. ADR assessment tools
9. Menace of Antibiotic resistance