Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 07-May-2022

Time: Three Hours **Max. Marks: 100 Marks**

PHARMACOLOGY - PAPER – I (RS-2/RS-3)
Basic and General Pharmacology
Q.P. CODE: 7405

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Pharmacogenetics and pharmacogenomics
2. SAR and Drug design
3. Chi-square test
4. HPLC
5. Essential drug concept
6. Clinical significance of administration of drugs during pregnancy
7. Michle's menten kinetics
8. Vectorial transport
9. Mixed function oxidases.
10. Institutional Ethics Committee.

M.D. Degree Examination – 09-May-2022

Time: Three Hours **Max. Marks: 100 Marks**

PHARMACOLOGY - PAPER – II (RS-2/RS-3)
SYSTEMIC PHARMACOLOGY - I
Q.P. CODE: 7406

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Classification of anti anginal drugs and their mechanism of actions
2. Drugs affecting RAAS
3. Discuss the therapeutic application of atropine and its substitutes
4. Newer anti epileptics
5. Recent advances in treatment to bipolar disorders
6. Non cardiovascular uses of sympathomimetic agents
7. Anti H.Pylori therapy
8. Drugs used for management of Huntington's chorea
9. Newer oral anticoagulants
10. Anti inflammatory agents in Bronchial Asthma

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 11-May-2022

[Time: 3 Hours] **[Max. Marks: 100]**

PHARMACOLOGY - PAPER – III
(RS-2/RS-3)
Systemic Pharmacology - II
Q.P. CODE: 7407

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Newer insulin preparations and management of Diabetic emergencies.
2. Drugs used in Assisted reproduction
3. Tocolytics
4. Bisphosphonates
5. Streptogramins
6. Drugs used in anaerobic infections
7. Immunostimulants and immunomodulators
8. Dihydrofolate reductase inhibitors
9. Antibiotics used in cancer chemotherapy
10. Metronidazole and its analogues

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M.D. Degree Examination – 13-May-2022

Time: Three Hours **Max. Marks: 100 Marks**

PHARMACOLOGY - PAPER – IV
(RS-2/RS-3)
CLINICAL PHARMACOLOGY
Q.P. CODE: 7408

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Screening methods for evaluation anti-fertility agents
2. Pharmacovigilance
3. Types of review in Ethics Committee
4. Essential drugs
5. Placebo
6. Biosimilars
7. Nanomedicine
8. Principles of Declaration of Helsinki
9. Prerequisites of new drug application
10. New Drugs and Clinical Trials Rules 2019

Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 15-Nov-2022

[Time: 3 Hours] **[Max. Marks: 100]**

PHARMACOLOGY - PAPER – I (RS-2/RS-3)
Basic and General Pharmacology
Q.P. CODE: 7405

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Receptor mediated mechanism of drug action
2. Discuss the principles of administration of drugs during pregnancy.
3. Drug reservoirs
4. Bioequivalence
5. Essential medicine(s) concept
6. Phase-I clinical trials
7. Student's **t**-test
8. Beneficial drug interactions
9. Role of transport proteins in drug passage
10. Drug Antagonism

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M.D. Degree Examination – 17-Nov-2022

[Time: 3 Hours] **[Max. Marks: 100]**

PHARMACOLOGY - PAPER – II (RS-2/RS-3)
SYSTEMIC PHARMACOLOGY - I
Q.P. CODE: 7406

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

Answer All The Questions **10 X 10 = 100 Marks**

1. Non-depolarizing neuromuscular blocking agents
2. Nicotine addiction and smoking cessation
3. Therapeutic uses of adrenergic drugs
4. Non-cardiovascular uses of β-blockers
5. Atypical antipsychotics
6. Selective Serotonin Reuptake Inhibitors (SSRIs)
7. GINA guidelines for bronchial asthma
8. Newer Oral Anticoagulants
9. Non-benzodiazepine Hypnotics
10. Probiotics and Prebiotics

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Rajiv Gandhi University of Health Sciences, Karnataka

M.D. Degree Examination – 19-Nov-2022

Time: Three Hours **Max. Marks: 100 Marks**

PHARMACOLOGY - PAPER – III
(RS-2/RS-3)
Systemic Pharmacology - II
Q.P. CODE: 7407

Your answers should be specific to the questions asked.
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Drug therapy of osteoporosis
2. Newer oral anti-diabetic drugs
3. Selective estrogen receptor down regulators
4. Newer fluoroquinolones
5. Delamanid
6. Protease inhibitors
7. Calcineurin inhibitors
8. Monoclonal antibodies in cancer chemotherapy
9. Drugs used in chloroquine resistant malaria
10. General principles of antimicrobial therapy

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M.D. Degree Examination – 21-Nov-2022

Time: Three Hours **Max. Marks: 100 Marks**

PHARMACOLOGY - PAPER – IV
(RS-2/RS-3)
CLINICAL PHARMACOLOGY
Q.P. CODE: 7408

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary.

Answer All The Questions **10 x 10 = 100 Marks**

1. Measures of Vaccine efficacy and regulation of vaccine trials.
2. Guinea pig as an experimental animal.
3. Write five examples of toxin based drugs approved for treatment by USFDA.
4. Medication errors - causes and practices to reduce medication errors.
5. Informed consent document.
6. Transgenic animals and their use as models for Alzheimer’s disease.
7. **Herbal Drug interactions with examples.**
8. Orphan drugs and new guidelines for New Drugs and Clinical Trial rules 2019 (NDCT 2019)
9. Maze types and use in experiments on laboratory animals.
10. New concept of ARO-CRO model in clinical trials.

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