Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – APRIL 2015

Time: 3 Hours **Max. Marks: 50 Marks**

Pathology

Q.P. Code: 2059

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

(Note : Both QP Codes 2059 and 2060 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define and classify edema. Discuss etiopathogenesis of renal edema
2. Define necrosis. Mention types of necrosis. Add a note on dry gangrene.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

3. Phagocytosis
4. Describe pathogenesis of peptic ulcer
5. Delayed hyper sensitivity reaction
6. Myxedema
7. Dystrophic calcification
8. Hypertrophy
9. aneurysm

SHORT ANSWERS **5 x 2 = 10 Marks**

10. Granuloma
11. Aschoff body
12. Transudate
13. LE cell
14. Eosinophilia

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – APRIL 2015

Time: 3 Hours **Max. Marks: 50 Marks**

Microbiology

Q.P. Code: 2060

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

(Note : Both QP Codes 2059 and 2060 are to be answered within total duration of 3 hours)

1 x 10 = 10 Marks

LONG ESSAYS (Answer any One)

1. Draw a neat labeled diagram of bacterial cell. Discuss various types of bacteria and explain staphylococcus.
2. Define and classify immunity. Describe innate immunity in detail.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

3. Blood culture
4. Hot air oven
5. Immunoglobulins
6. WIDAL test
7. Louis Pasteur
8. Autoclave
9. ELISA

SHORT ANSWERS **5 x 2 = 10 Marks**

10. Mantoux test
11. Name four gram negative bacteria
12. DPT vaccine
13. Candidiasis
14. Quelling reaction

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – APRIL 2015

Time: 3 Hours **Max. Marks: 40 Marks**

Pathology

Q.P. Code : 2159

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

(Note : Both QP Codes 2159 and 2160 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define and classify anaemias. Write the peripheral smear findings in iron deficiency anaemia.
2. Define and classify neoplasm. Write the differences between benign and malignant tumors.

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Embolism
4. Rheumatic fever
5. Granulomatous inflammation
6. Ewings sarcoma
7. Necrosis

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Atrophy
9. Typhoid fever
10. Granulation tissue
11. Acute glomerulonephritis
12. Adenoma of thyroid

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – APRIL 2015

Time: 3 Hours **Max. Marks: 40 Marks**

Microbiology

Q.P. Code: 2160

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

(Note : Both QP Codes 2159 and 2160 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define and classify Sterilization. Give a detailed account of Moist Heat Sterilization.
2. Enumerate the organisms causing Meningitis. Describe the laboratory diagnosis of Meningitis.

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Hot Air Oven
4. Bacterial Capsule
5. Tuberculosis
6. Antibiotic Susceptibility Testing
7. Hospital Acquired Infections.

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Name any four Gram Negative Organisms.
9. Type II Hypersensitivity
10. Universal Precautions (any four)
11. Name any four vaccines.
12. Name any four organisms causing urinary tract infections.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - APRIL 2015

Time: 3 Hours **Max. Marks: 40 Marks**

Pathology

Q.P. Code: 2708

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

(Note: Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define Atherosclerosis. Discuss aetiopathogenesis and fate of thrombus.
2. Describe etiology and pathogenesis of different types of Oedema.

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Iron deficiency anaemia
4. Morphology of reversible cell injury
5. Pathological calcification
6. Factors affecting healing
7. Rickets

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Types of embolism
9. Jaundice
10. Neuritis
11. Volkmann's ischemic contracture
12. Ghon's complex

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - APRIL 2015

Time: 3 Hours **Max. Marks: 40 Marks**

Microbiology

Q.P. Code : 2709

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

(Note : Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Name the organisms causing meningitis. Discuss the morphology, pathogenicity and laboratory diagnosis of Streptococcus pneumoniae
2. Enumerate viruses causing hepatitis. Describe the pathogenesis and laboratory diagnosis of Hepatitis-B virus. Add a note on its prophylaxis

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Bacterial capsule
4. Anaphylaxis
5. Classification of fungi based on disease caused
6. Lab diagnosis of tetanus
7. Hot-Air oven

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Name four organisms causing respiratory tract infections
9. DPT vaccine
10. Mention any two properties of Antigens.
11. Name two differential staining methods
12. Name any four zoonotic diseases

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – APRIL 2015

Time: Three Hours **Max. Marks: 80 Marks**

PHARMACOLOGY

(RS - 3 & RS – 4)

Q.P. CODE: 2710

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

LONG ESSAYS (Answer any Two) 2 x 10 = 20 Marks

1. Classify Skletal muscle Relaxants. Discuss the Mechanism of action uses and adverse effects of Pancuronium.
2. Classify Opioid analgesics. Describe the uses, adverse effects and contraindications of Morphine.
3. Enumerate routes of drug administration with examples. Write the advantages and disadvantages of oral, IV and sc routes of administration.

SHORT ESSAYS (Answer any Eight) **am8 x 5 = 40 Marks**

4. Sublingual Route of Administration
5. Atropine substitutes
6. Cox 2 inhibitors.
7. Uses of Prazosin
8. Fibrinolytics
9. Frusemide
10. Drugs to be avoided in elderly and why?
11. Baclofen
12. Anti cholinergic drugs
13. Uses and adverse effect of alpha blockers

SHORT ANSWERS **10 x 2 = 20 Marks**

14. One use and one adverse effect of Ranitidine
15. One use and one adverse effect of Metformin
16. One use and one adverse effect of Hydrocortisone
17. One use and one adverse effect of Salmeterol
18. One use and one adverse effect of Diclofenac
19. One use and one adverse effect of Lithium
20. One use and one adverse effect of Adrenaline
21. One use and one adverse effect of Phenytoin
22. One use and one adverse effect of Bromocryptine
23. One use and one adverse effect of Verapamil

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - APRIL - 2015

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

EXERCISE THERAPY (RS-3 & RS-4)

Q.P. CODE: 2711

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Define balance. Describe in detail the evaluation of impaired balance and balance re-training
2. What are the indications and principles of massage? Describe in detail physiological and therapeutic uses of manipulations in massage
3. How is limb length measured? What are the different types of crutches? Write in detail about various crutch gaits

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Explain non-equilibrium tests for co-ordination
5. Enumerate the principles of PNF
6. Write the protocol for re-education of a muscle from power 1 to 2
7. What are the effects and uses of resisted exercises?
8. Write briefly about the various types of breathing exercise
9. Define hydrotherapy. Enumerate the precautions and contra indications of hydrotherapy
10. What are the normal and abnormal responses to acute aerobic exercise?
11. Write about Frenkels exercises for lower limb
12. Explain the principles, methods and techniques of pranayama
13. Illustrate MMT for knee flexors and extensors
14. Explain petrissage manipulation
15. Define passive movements. Classify it an write down the principles for giving passive movements
16. Write briefly about the benefits of suspension therapy
17. Therapeutic gymnasium

SHORT ANSWERS **10 x 2 = 20 Marks**

18. Write the principles of co-ordination exercise
19. Enumerate any two mat activities
20. Define good posture
21. Explain Delormes technique
22. What is Mitchell's Relaxation Technique?
23. Write any two derived positions
24. List down the components of a gait cycle
25. Define stretching
26. What is 1 RM?
27. Write any two principles of MMT

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – APRIL 2015

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

ELECTROTHERAPY

(RS-3 & RS-4)

Q.P. CODE: 2712

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Define IFT. Explain principle and production of IFT. Describe physiological and therapeutic effects of interferential therapy.
2. Define LASER. Describe therapeutic and physiological effects of LASER. Add a note on indications and contraindications of LASER.
3. Classify types of UVR. Explain the methods of test dose and describe calculation of dosage. Add a note on its therapeutic effects.

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Valves and types
5. Explain physiological changes occurring in a nerve during electrical stimulation
6. Define TENS and explain conventional TENS
7. Explain various theories of pain
8. Explain physiological and therapeutic effects of faradic currents
9. Describe principles and application of ultra sound
10. Micro currents
11. Explain physiological and therapeutic effects of cryotherapy
12. Explain procedure of Iontophorosis in the treatment of hyperhydrosis
13. Write a note on physiological and therapeutic effects of IRR
14. Explain methods of application of wax therapy
15. Difference between high frequency and low frequency currents
16. Describe principle and production of MWD
17. Describe the physiological effects of sinusoidal currents

SHORT ANSWERS **10 x 2 = 20 Marks**

18. Define shock
19. Define static electricity
20. Define electromagnetic induction
21. What is duty cycle?
22. What is Neuropraxia
23. Define nociception
24. Two uses of fuse
25. Define biofeedback
26. What is latent heat?
27. Define H- reflex

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – APRIL 2015

Time: Three Hours **Max. Marks: 80 Marks**

RESEARCH METHODOLOGY & BIOSTATISTICS

(RS-3 & RS-4)

Q.P. CODE: 2713

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Describe the features of a good research design.
2. Describe basic principles of graphical representation along with types of diagrams.
3. Describe various measures of Central tendency and how are they related with each other.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Motivation in research.
5. Statement of Research problem.
6. Factors to be considered in the preparation of questionnaire.
7. Importance of the study of statistics.
8. Uses of Analysis of Variance (ANOVA) with an example from physiotherapy situation.
9. Computer application in research.
10. Normal Probability curve.
11. Chi-Square test for 2X2 contingency table.
12. Different measures of scales with an example to each.
13. What is Descriptive statistics?

SHORT ANSWERS **10 x 2 = 20 Marks**

14. What is hypothesis?
15. When do you use Paired 't' – test?
16. Describe Quartiles.
17. Analysis of Co-Variance (ANACOVA)?
18. Define Simple Random Sampling.
19. Define Co- efficient of variation.
20. Differences between Bar diagram and Histogram.
21. Mention various types of Mean.
22. Define probability of an event.
23. Sampling variation.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - SEPTEMBER 2015

Time: 3 Hours **Max. Marks: 40 Marks**

Pathology
Q.P. Code: 2708

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

(Note: Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define cell injury. Discuss etiology and pathogenesis for the same.
2. Describe etiology and pathogenesis of different types of oedema.

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Sickle cell anemia
4. Protein Energy Malnutrition
5. Atrophy
6. Diabetes mellitus
7. Iron deficiency anaemia

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Name two screening tests for diagnosis of bleeding disorder
9. Pancytopenia
10. Opportunistic infections in HIV
11. Gangrene
12. Osteoarthritis

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - SEPTEMBER 2015

Time: 3 Hours **Max. Marks: 40 Marks**

Microbiology

Q.P. Code : 2709

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

(Note : Both QP Codes 2708 and 2709 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Classify hypersensitivity. Describe anaphylaxis in detail.
2. Discuss the pathogenesis, laboratory diagnosis and prophylaxis of enteric fever.

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Poliomyelitis
4. IgM
5. Meningitis – etiological agents and laboratory diagnosis
6. Antifungal agents
7. Universal precautions

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Structure of HIV
9. Prophylaxis for Hepatitis 'B'
10. Name any four organisms causing opportunistic infections
11. Significant bacteriuria
12. Rheumatic fever

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – SEPTEMBER 2015

Time: Three Hours **Max. Marks: 80 Marks**

PHARMACOLOGY

(RS - 3 & RS – 4)

Q.P. CODE: 2710

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Discuss the various routes of drug administration. Explain one in detail with example.
2. Classify anti hypertensive drugs. Explain mechanism of action, adverse effects of diuretics.
3. Classify non steroidal anti-inflammatory drugs. Write the pharmacology of aspirin.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Amoxicillin
5. Proton pump inhibitor
6. Anticoagulants
7. Bronchodilators
8. Write a note on dopamine
9. Write short note on anti epileptic drugs
10. Drugs used in the treatment of diabetic mellitus
11. Lignocaine
12. Write note on metabolism of drugs
13. oxytocin

SHORT ANSWERS **10 x 2 = 20 Marks**

14. Define pharmacokinetics
15. Write four uses of diazepam
16. Mention two hypolipidemic agents and their uses
17. Four uses of Nitrates
18. Name four drugs used in treatment of leprosy
19. Name four general anesthetics
20. Atypical antidepressants
21. What are prokinetic drugs? Give two examples
22. Name two immunosuppressants
23. List four antipsychotic agents.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – SEPTEMBER 2015

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

EXERCISE THERAPY

(RS – 3 & RS - 4)

Q.P. CODE: 2711

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Define massage. Classify massage with indications and contraindications.
2. Explain the principles of aerobic exercise training. Give the types of training.
3. Describe Relaxation techniques in detail.

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. List 5 derived positions and describe any ONE
5. Describe 5 principles of mobilization technique
6. Physiological changes with manipulation
7. Give 5 limitations of goniometry
8. Classify asanas. Explain any two in detail.
9. Give 5 principles of Manual Muscle Testing (MMT)
10. Describe the stretching technique for quadriceps tightness
11. Describe limb length measurement techniques in lower limb
12. Explain the principles and training with walking aids
13. Define active movement. Explain the types of active movement
14. Define walking aids. write the types of walking aids and its uses
15. Define functional re-education and mention the stages from lying to sitting
16. Describe the types of resisted exercises with examples
17. Explain the physiology of Balance

SHORT ANSWERS **10 x 2 = 20 Marks**

18. What is de Lormes technique?
19. What is Hold relax?
20. What is circuit-interval training?
21. What are the demerits of hydrotherapy?
22. Precautions taken during stretching exercises
23. Give 2 benefits of practicing suryanamaskara
24. Give 2 uses of parallel bars
25. Give 2 differences between eccentric contraction and stretching
26. What is reciprocal inhibition?
27. Define 10 RM.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - SEPTEMBER 2015

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

ELECTROTHERAPY

(RS-3 & RS-4)

Q.P. CODE: 2712

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Describe how an action potential is produced in response to electrical stimulation
2. Describe the production of shortwave diathermy with circuit diagram
3. Describe the physiological effects, indications and contraindications of galvanic current

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Construction and working of triode valves
5. Physiological effects of Russian currents
6. Therapeutic uses of infrared radiation
7. Sensitizers in ultra violet radiation
8. Thermal effects of ultrasound
9. Methods of application of Cryotherapy
10. Contraindications for wax therapy
11. Describe F-G test along with its indications and uses.
12. Ionotophoresis for wound healing
13. Technique of reeducation of pelvic floor muscles with interferential currents
14. Properties of electric lines of force
15. Micro and macro shock
16. Technique of application of ultrasound
17. Skin electrode interface

SHORT ANSWERS **10 x 2 = 20 Marks**

18. Define cosine law
19. Define motor unit
20. Mention any four absolute contraindications for LASER
21. Uses of transformer
22. Define LP module
23. Lewis hunting reaction
24. Define brief and intense TENS
25. Define fourth degree erythema with application of Ultra Violet Radiation
26. Define phonophoresis
27. Define Rebox current

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - SEPTEMBER 2015

Time: Three Hours **Max. Marks: 80 Marks**

RESEARCH METHODOLOGY & BIOSTATISTICS

(RS-3 & RS-4)

Q.P. CODE: 2713

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Define hypotheses. Explain procedure for hypotheses testing.
2. What are measures of central tendency? Explain each of them with an example.
3. Explain different methods of sampling technique.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Objectives of research
5. Features of good research
6. Variables and their types
7. Analysis of variance (ANOVA)
8. Describe collection of primary data
9. Explain procedure for tabulation of data
10. Normal distribution
11. Describe various measurement scales
12. Uses of computer in research
13. Uses of biostatistics in health science

SHORT ANSWERS **10 x 2 = 20 Marks**

14. Kurtosis
15. Ratio scale
16. Median
17. Systematic sampling
18. Mean deviation
19. Cohort study
20. Normal probability curve
21. One tailed and two tailed hypotheses
22. Editing in processing of data
23. What are the errors in sampling?

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (Physiotherapy) Degree Examination – SEPTEMBER 2015

Time: Three Hours **Max. Marks: 70 Marks**

PHARMACOLOGY
(Old Scheme)

Q.P. CODE: 2058

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Enumerate the routes of administration of drugs. Write the advantages and disadvantages of Sublingual route. Write examples of drugs given sublingually
2. Classify the skeletal muscle relaxants. Describe the pharmacological actions, therapeutic uses and adverse reactions of d-tubocurarine
3. Classify Nonsteroidal anti-inflammatory drugs. Write the pharmacological actions therapeutic uses adverse effects of Aspirin

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. Phenytoin sodium
5. Loop diruretics
6. Amino glycoside antibiotics – name them and add a note on their adverse effects
7. Therapeutic uses of Morphine
8. Cotrimoxazole
9. Oral antidiabetic drugs
10. Therapeutic uses and side effects of Atropine sulphate
11. Benzodiazepines

SHORT ANSWERS **10 x 2 = 20 Marks**

12. Name two centrally acting antihypertensives and explain the mechanism of action
13. Define prodrug with example
14. Write the drug of choice in the treatment of anaphylactic shock with dose and route of administration
15. Name any four drugs used in Angina Pectoris
16. Name two alpha-receptor blockers and two therapeutic uses of them
17. Why Neostigmine and not Physostigmine is used in the treatment of Myasthenia Gravis?
18. Name any two mucolytic agents and explain their mechanism of action
19. Name the drugs used in organophosphorous compound poisoning
20. Name four drugs that cause drug dependence
21. Name two Glucocorticoids and two uses of them

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – SEPTEMBER 2015

Time: 3 Hours **Max. Marks: 50 Marks**

Pathology

Q.P. Code: 2059

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

(Note : Both QP Codes 2059 and 2060 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define and classify Neoplasia. Discuss the difference between being and malignant tumors.
2. Define gangrene, mention the types and write about each type with example.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

3. Primary wound healing
4. Pyogenic meningitis
5. Infarction
6. Dystrophic calcification
7. Lobar pneumonia
8. Discuss rheumatic heart disease
9. Chemical mediators of inflammation

SHORT ANSWERS **5 x 2 = 10 Marks**

10. Granulation tissue
11. Hyperplasia
12. Types of cirrhosis
13. Mention four complications of diabetic mellitus
14. Ionizing radiation.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – SEPTEMBER 2015

Time: 3 Hours **Max. Marks: 50 Marks**

Microbiology

Q.P. Code: 2060

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

(Note : Both QP Codes 2059 and 2060 are to be answered within total duration of 3 hours)

1 x 10 = 10 Marks

LONG ESSAYS (Answer any One)

1. Define and classify hypersensitivity. Write in detail about type I hypersensitivity with examples.
2. Write about morphology, pathogenecity and diagnostic test of mycobacterium tuberculosis.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

3. Nosocomial infection
4. ELISA
5. Autoclave
6. Blood culture
7. Coagulation test
8. Antibiotic sensitivity test
9. Polio vaccine

SHORT ANSWERS **5 x 2 = 10 Marks**

10. BCG vaccine
11. Name two antiviral agents
12. Cold sterilization
13. Selective media
14. Name four zoonotic diseases

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – SEPTEMBER 2015

Time: Three Hours **Max. Marks: 80 Marks**

PHARMACOLOGY
(RS & RS2)

Q.P. CODE: 2158

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Mention various routes of administration of drugs. Write the advantages and disadvantages of oral route of administration of drugs.
2. Classify analgesics. Write the therapeutic uses and adverse effects of morphine.
3. Classify Fluoroquinolones. Write the mechanism of action, therapeutic uses and adverse effects of ciprofloxacin.

SHORT ESSAYS (Answer any Eight) **8 x 5 = 40 Marks**

4. Diazepam
5. Furosemide
6. Mast cell stabilizers
7. Metformin
8. Therapeutic uses and adverse effects of alpha blockers
9. Centrally acting skeletal muscle relaxants
10. Therapeutic uses and adverse effects of corticosteroids
11. Mechanism of action and therapeutic uses of lignocaine
12. Acyclovir
13. Methotrexate.

SHORT ANSWERS **10 x 2 = 20 Marks**

14. What are Prodrugs? Write two examples.
15. Mention two drugs used in glaucoma.
16. Mention two antiarrythmic drugs.
17. Mention two antiepileptic drugs with their adverse effects.
18. Mention four drugs used in hypertension.
19. Mention two drugs used in the treatment of anaphylaxis.
20. Mention two antipsychotic agents.
21. Mention two intravenous general anaesthetic agents.
22. Mention two anabolic steroids.
23. Mention two adverse effects of cyclophosphamide.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – SEPTEMBER 2015

Time: 3 Hours **Max. Marks: 40 Marks**

Pathology

Q.P. Code : 2159

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

(Note : Both QP Codes 2159 and 2160 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define pathogenesis, types and morphological changes of shock.
2. Etiology & pathogensis of Rheumatic heart diseases

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Cirrhosis of liver
4. Gastric ulcer
5. Protein energy malnutrition
6. Sickle cell anemia
7. Vascular events in acute inflammation

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Aplasia
9. Causes of spleenomegaly
10. Rickets
11. Dystrophic calcification
12. Stains used in amyloidosis

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – SEPTEMBER 2015

Time: 3 Hours **Max. Marks: 40 Marks**

Microbiology

Q.P. Code : 2160

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

(Note : Both QP Codes 2159 and 2160 are to be answered within total duration of 3 hours)

LONG ESSAYS (Answer any One) **1 x 10 = 10 Marks**

1. Define and classify sterilization. Discuss in detail the moist heat sterilization.
2. Define and classify Hypersensitivity. Discuss in detail the type I Hypersensitivity reaction.

SHORT ESSAYS (Answer any Four) **4 x 5 = 20 Marks**

3. Robert Koch
4. Immunoglobulin G
5. Pasteurization
6. Bacterial Flagella
7. Prophylaxis of Rabies

SHORT ANSWERS **5 x 2 = 10 Marks**

8. Name Two transport media.
9. Name two bacteria causing Food poisoning.
10. Name two bacteria causing Urinary Tract Infection.
11. D.P.T
12. Universal preparation against HIV infections

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – SEPTEMBER 2015

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

THERAPEUTICS (OS, RS & RS2)

Q.P. CODE: 2161

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

LONG ESSAYS (Answer any Two) **2 x 10 = 20 Marks**

1. Explain Aerobic exercise. Describe the principles and training.
2. Enumerate various pathological gaits. Discuss any three in detail.
3. Explain starting positions, Describe the muscle work of kneeling, hanging and sitting.

SHORT ESSAYS (Answer any Twelve) **12 x 5 = 60 Marks**

4. Frenkels exercise
5. What is PRE? Explain Delormes Technique
6. Precautions of Hydrotherapy
7. Types of suspension therapy
8. Principles of goniometer
9. Principles & uses of Mat Exercises
10. Describe the stretching technique for quadriceps tightness
11. Breathing exercise. Goals and indications of the same
12. Advantages and disadvantages of group exercises
13. Define passive movement. Explain the types of passive movement
14. Write about the coughing and huffing exercise
15. Postural drainage positions and techniques
16. Describe the types of muscle contraction with examples
17. Explain pelvic tilt

SHORT ANSWERS **10 x 2 = 20 Marks**

18. Two uses of relaxation
19. Passive insufficiency
20. Treadmill
21. Muscle tone
22. Ballistic Stretching
23. Two use of static cycle
24. Two principles of MMT
25. Strength and endurance
26. Two point gait
27. Pulleys

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Rajiv Gandhi University of Health Sciences

Second Year BPT Degree Examination - SEPTEMBER 2015

Time: 3 Hours [Max. Marks: 100]

Electro Therapy (OS, RS & RS2)

QP Code : 2162

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

LONG ESSAY (Answer any two) **2 X 10 = 20 Marks**

1. Describe the procedure of performing strength duration (SD) curve and interpret the findings.
2. Explain the principles of application of Ultrasound Therapy. Explain its therapeutic uses.
3. Discuss the therapeutic effects and uses of medium frequency currents.

SHORT ESSAY (Answer any twelve) **12X 5 = 60 Marks**

4. Effects of current flow at cellular level
5. What is action potential? Explain the propagation of action potential.
6. Therapeutic effects of paraffin wax bath. Explain various methods of application of paraffin wax bath.
7. Give the types of Infra red radiations. Explain its merits and demerits.
8. Describe Diadynamic currents
9. Faradic currents for pelvic floor muscle
10. Explain the differences between superficial and deep heat modalities
11. Theories of pain modulation
12. Iontophoresis
13. Electrode placement in TENS
14. List out the tests of Electrodiagnosis. Explain any one in detail.
15. What is cavitation and attenuation with reference to ultrasound therapy?
16. Reverse piezoelectric effect
17. Write a note on fradic foot bath.

SHORT ANSWERS **10 X 2 = 20 Marks**

18 Define LASER
19. What is latent heat in wax therapy?
20. Define electro magnetic radiation
21. Define dielectric constant in short wave diathermy(SWD)
22. What is Microwave diathermy(MWD)?
23. Polyphasic Pulse
24. Define base and spectrum in IFT
25. Uses of Fuse
26. Define modulated TENS
27. What is accommodation?

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