Rajiv Gandhi University of Health Sciences, Karnataka

II year B.P.T Degree Examination – Aug 2013

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

ELECTROTHERAPY (OS, RS & RS2)

Q.P. CODE: 2162

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 physiological effects and therapeutic uses of pulsed currents
2. Describe the types, effects, merits and demerits of Ultra violet radiation
3. Discuss the traditional methods of electrodiagnosis

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

4. Ultrasound coupling media
5. Classification of LASER
6. Half value depth in ultrasound
7. Filters in ultra violet radiation
8. Therapeutic uses of microwave diathermy
9. Gate control theory of pain
10. Contraindications for TENS
11. Technique of electrical stimulation of denervated muscles
12. Principles and advantages of Ionotophoresis
13. Indications and technique of faradic foot bath
14. Calculation of test dose in ultraviolet radiation
15. Precautions and treatment of shock
16. Effects and uses visible lights
17. Spacing in shortwave diathermy

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

18. Define EMG Biofeedback
19. Neuropraxia
20. Mention any four absolute contraindications for Cryotherapy
21. Standing waves
22. Define CP module
23. Pfluger's law
24. Define High TENS
25. Accommodation of nerve
26. Define beat frequency in interferential currents
27. What is ramping of current?

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (Physiotherapy) Degree Examination – Mar 2013

ne: 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

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

1. Mention the different routes of drug administration with suitable examples. Write the advantages and disadvantages of intravenous route.
2. Classify NSAID's write the mechanism of action, pharmacological actions, therapeutic uses and adverse effects of aspirin.
3. Classify the drugs used in Tuberculosis. Mention the therapeutic uses and adverse effects of rifampicin

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

4. Drug synergism
5. Bronchodilators.
6. Potassium sparing diuretics.
7. Chlorpromazine.
8. Tetracyclines.
9. Uses of beta blockers.
10. Radioactive Iodine.
11. Pethidine.

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

12. Enumerate four cephalosporins and important uses.
13. Treatment of hypotension consequent to spinal anaesthesia.
14. Advantage of combining adrenaline with lignocaine.
15. Name two conditions where diuretics are used.
16. Name one anabolic sterold and its use.
17. What is cotrimoxazole? Mention two uses
18. Name two mucolytic agents and mention their uses.
19. Mechanism of action of disulfiram.
20. Mention three uses of diazepam.
21. Name two peripheral acting muscle relaxants.

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2059_2013_1_S104

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Mar 2013

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)

1 x 10 = 10 Marks

LONG ESSAYS (Answer any One)

1. Define and classify anaemias. Write etiology, laboratory findings and blood picture of iron deficiency anaemia
2. Explain pathogenesis of primary tuberculosis and macroscopic and microscopic picture of primary pulmonary tuberculosis

6 x 5 = 30 Marks

SHORT ESSAYS (Answer any Six)

3. Osteosarcoma
4. Write briefly about causes of intracerebral and subarachnoid haemorrhage
5. Different types of ulcerative lesions of intestine
6. Causes of oedema
7. Morphological appearances of different types of necrosis
8. Cellular ageing
9. Healing by first intention

5 x 2 = 10 Marks

SHORT ANSWERS

10. Types emphysema
11. Causes of encephalitis
12. Neuralgia
13. Ionizing radiation
14. Methods of detecting HIV virus

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K.R. MULLER CENTRAL LIBRARY

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Mar 2013

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 infection. Mention the different sources of infection and their routes of spread
2. Define and classify hypersensitivity and give a detailed account of type I hypersensitivity

6 x 5 = 30 Marks

SHORT ESSAYS (Answer any Six)

3. Clostridium welchii
4. Antibiotic sensitivity test
5. Natural passive immunity
6. Pasteurization
7. Hospital acquired infections
8. Polio vaccine
9. Louis Pasteur

5 x 2 = 10 Marks

SHORT ANSWERS

10. Fumigation
11. Conjugation
12. Enumerate any two pathogenic fungi
13. Treponema pallidum
14. Enumerate any two common disinfectants

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T.M.A. PAI CENTRAL LIBRARY

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Mar 2013

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. Classify Non steroidal anti inflammatory agents. Describe the pharmacological actions. Uses and adverse effects of aspirin.
2. Classify sedative hypnotics. Discuss the mechanism of action, uses and Adverse effects of Benzodiazepines.
3. Classify antihypertensive. Describe the uses and advantages of β-blackers.

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

4. Bioavailability
5. IV anaesthetics
6. Mucolytic agents
7. Anabolic agents
8. Status Epilepticus
9. Xylocaine
10. Digoxin
11. Centrally acting SKMR
12. Uses and ADR of glucocorticoids
13. Loop diuretics.

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

14. One use and one adverse effect of Methotrexate
15. One use and one adverse effect of Glimipiride
16. One use and one adverse effect of Salbutamol
17. One use and one adverse effect of Adrenaline
18. One use and one adverse effect of Clonidine
19. One use and one adverse effect of Halothane
20. One use and one adverse effect of Phenytoin
21. One use and one adverse effect of Dantrolene
22. One use and one adverse effect of Morphine
23. One use and one adverse effect of Oximes

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – Mar 2013

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)

1 x 10 = 10 Marks

LONG ESSAYS (Answer any One)

1. Define and classify gangrene. Tabulate the differences between dry and wet gangrene.
2. Define infarction. Describe the etiology, pathogenesis and morphology of myocardial infarction.

4 x 5 = 20 Marks

SHORT ESSAYS (Answer any Four)

3. Osteoclastoma
4. Cirrhosis
5. Bronchiectasis
6. Leprosy
7. Metastasis

5 x 2 = 10 Marks

SHORT ANSWERS

8. Fate of a thrombus
9. Metaplasia
10. Opportunistic infections in AIDS
11. Mention hepatotrophic viruses
12. Fatty change

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F.R. MULLER'S CENTRAL LIBRARY

Rajiv Gandhi University of Health Sciences, Karnataka 95

II Year B.P.T Degree Examination – Mar 2013

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)

1 x 10 = 10 Marks

LONG ESSAYS (Answer any One)

1. Define hypersensitivity. Describe type I hypersensitivity reaction.
2. Describe in detail the bacterial cell with emphasis on the cell wall.

4 x 5 = 20 Marks

SHORT ESSAYS (Answer any Four)

3. Prophylaxis of rabies
4. Gonorrhea
5. Anaerobic methods of cultivation
6. Candida albicans
7. Enteric fever

5 x 2 = 10 Marks

SHORT ANSWERS

8. Tyndallisation
9. Enrichment media
10. Gram's stain
11. Name two non-bile stained ova.
12. Mantoux test

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Mar. 2013

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

THERAPEUTICS - (OS, RS & RS-2)

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. What are the principles of manual muscle testing? Explain the techniques of strengthening of Quadriceps from Grade 1 to Grade 5.
2. Describe in detail indications, contraindications and different techniques of massage
3. What is PNF? Explain it's principles & techniques

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

4. Explain the principles & techniques of joint mobilization
5. Explain the effects of aerobic exercises
6. What is suspension therapy? Explain it's types
7. What are the principles of Hydrotherapy? Outline it's merits & demerits
8. Pre – crutch training
9. What is postural drainage? Outline it's principles & techniques
10. Exercise for hand function
11. Frenkel's exercise
12. Mat exercise
13. Describe the advantages of Group exercises
14. Name the physiological deviations of posture & outline it's corrective exercises
15. Name the types of walking aids & describe the types of crutch walking
16. Explain the principles & techniques of goniometry
17. Setting of therapeutic gymnasium

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

18. VO_2 Max
19. Define RM
20. Accessory movement
21. Differentiate between spasticity & tightness
22. Mention any 2 derived positions from sitting
23. Uses of huffing
24. What is static & dynamic posture
25. Uses of warm – up exercises
26. Name 2 uses of assisted exercises
27. True and apparent limb length

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E.R. MULLER CENTRAL LIBRARY

Rajiv Gandhi University of Health Sciences, Karnataka

II year B.P.T Degree Examination – Mar 2013

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

ELECTROTHERAPY (OS, RS & RS2)

Q.P. CODE: 2162

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 the production of short wave diathermy with circuit diagram. Enumerate the physiological effects of SWD
2. Discuss the production of the UVR with Kromayer lamp and therapeutics of UVR
3. Explain the nature and feature of the electromagnetic spectrum

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

4. Explain about the high voltage pulsed galvanic stimulation
5. Discuss the physical principles used in thermal energy
6. What is a sinusoidal current and briefly about therapeutic use?
7. Merits of infra red rays
8. Mention briefly about disadvantages of strength – duration (SD) curve
9. Indications and procedure of faradic foot bath
10. What is high TENS? How it helps in reduction of pain
11. Generation and the propagation of action potential
12. What are the effects of negative and positive electrode on nerve excitability?
13. Explain the importance of the lowering of skin resistance
14. Explain in brief about the nerve conduction velocity studies
15. What are the visible radiations and mention the therapeutic effects?
16. Explain how bio-feedback helps in pain relief
17. Therapeutic uses of the ultrasound

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

18. What is motor point?
19. Two uses of hot packs
20. What is faradic – galvanic test?
21. What is magnetron?
22. What is latent heat in wax therapy?
23. Define reobase
24. Lenz's law
25. Types of electrode used in short wave diathermy
26. What is motor unit?
27. What is ohm's law?



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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Mar 2013

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, classify and discuss various types of Necrosis.
2. Discuss rheumatic heart disease. Mention the types of endocarditis.

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

3. Factors affecting healing.
4. Type 1 hypersensitivity reaction.
5. Health education in A.I.D.S.
6. Metaplasia.
7. Rickets.

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

8. Types of embolism.
9. Hypertrophy.
10. Lobar Pneumonia.
11. Four examples of congenital heart diseases.
12. Chronic venons congestion of lungs.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Mar 2013

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. List out sexually transmitted diseases. Explain pathogenesis, clinical features and lab diagnosis of HIV virus
2. Define and classify immunity. Describe acquired immunity in detail

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

3. Bacterial spore
4. Hepatitis B
5. Laboratory diagnosis of pulmonary tuberculosis
6. Clostridium tetani (Disease caused and lab diagnosis)
7. Coagulase test

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

8. Name the four Malarial parasites
9. Name the dermatophytes
10. Name two zoonotic disease
11. Name two motile and Non motile bacteria
12. BCG Vaccine

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Mar 2013

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. Mention the drugs used in the treatment of peptic ulcer. Write in detail about proton pump inhibitors.
2. Describe types of adverse drug reactions with suitable examples.
3. Classify antianginal drugs. Write mechanism of action, therapeutic uses and adverse effects of nitrates.

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

4. Thiazides.
5. Various drugs used in the treatment of spasticity.
6. Drug tolerance.
7. Uses and adverse effects of glucocorticoids.
8. Mucolytic agents.
9. Management of status epilepticus.
10. Uses & adverse effects of NSAID'S
11. Oral anticoagulants.
12. Cardioselective beta blockers.
13. List the drugs used in the treatment of parkinsonism.

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

14. Write one use and one adverse effect of Heparin.
15. Write four important adverse effects of insulin.
16. Name four drugs used in cardiac arrythmias.
17. Name two drugs used in the treatment of chronic gout.
18. Name two antimotility agents and their uses.
19. Mention the uses of lithium and its important adverse effects.
20. Mention two hypolipidemic agents and their uses.
21. Two uses and two adverse effects of chlorpromazine.
22. Write four uses of diazepam.
23. Name two bronchodilators and their adverse effects.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Mar 2013 32 31

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. Explain principles of suspension therapy. Describe the technique for shoulder flexion – extension movement.
2. Explain the principles of aerobic exercise training. Give the types of training.
3. Give the principles of strengthening. Describe the procedure to strength quadriceps from grade 2 – 5.

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

4. List 5 starting positions and describe any ONE.
5. Describe 5 principles of PNF technique.
6. Explain Jacobsen's method of relaxation.
7. Give 5 limitations of goniometry.
8. Give 5 contraindications to massage.
9. Give 5 principles of Manual Muscle Testing (MMT).
10. Describe the stretching technique for hamstring tightness.
11. Describe limb length measurement techniques.
12. Enlist types of walking aids with their uses.
13. Define passive movement. Explain the types of passive movement.
14. Give 3 advantages of Relaxation. Describe one technique in detail.
15. Explain the uses of Pulmonary function tests.
16. Describe the types of active movement with examples.
17. Explain the methods of progressing strength training.

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

18. What is dynamic power test?
19. What are the advantages of Mat exercises?
20. Give 2 uses of massage.
21. Describe 2 uses of goniometry.
22. Give 2 advantages of endurance exercise.
23. Give 2 benefits of practicing asanas.
24. Give 2 uses of parallel bars.
25. Give 2 differences between tightness and contracture.
26. What is 10 RM?
27. Define effleurage technique.

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2713_2011_1_S104

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Mar 2013

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 tabulation of data and explain the important types of graphical representation
2. Explain different types of sampling design
3. Objectives of research

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

4. Branches of statistics
5. Comparison of mean, median and mode
6. Normal distribution
7. Scales of measurement
8. Characteristics of statistics
9. Principles of experimental research design
10. Analysis of covariance (ANACOVA)
11. Sources of error in measurement
12. Motivation in research
13. Need for research design

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

14. Research problem
15. Define research design
16. Kurtosis
17. Sampling error
18. Binominal distribution
19. Continuous vs discrete variables
20. Two qualities of good research
21. Define biostatistics
22. Define scaling and give two important scaling techniques
23. Define research

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2708_2013_2_S181

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Aug 2013

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. Write about wound healing in detail
2. What is edema, classify and add a note on cardiac edema

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

3. Hypersensitivity type 1 reaction
4. Syphilis
5. Investigations in hemolytic anaemia
6. Osteosarcoma
7. Carcinogens

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

8. Dysplasia
9. Complications of diabetes mellitus
10. What is shock, give examples?
11. Gastritis
12. Atrophy

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2709_2013_2 S104

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Aug 2013

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. Describe the morphology, modes of transmission and laboratory diagnosis of HIV. Add a note on universal precautions
2. *Define Pyrexia or fever of unknown origin. Discuss the laboratory diagnosis of typhoid fever*

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

3. Acquired immunity
4. Gonorrhoea
5. Prophylaxis against tetanus
6. Microfilaria
7. Chemical methods of sterilization

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

8. Koch's postulates
9. Name two selective media and two enriched media
10. Name the diarrhoeagenic Escherichia coli
11. What is an adjuvant? Give two examples
12. Name four bacteria causing urinary tract infections

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Aug 2013

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. Mention various routes of administration of drugs. Write the advantages and disadvantages of intravenous route of administration of drugs.
2. Classify drugs used in the treatment of peptic ulcer. Write the mechanism of action, adverse effects and therapeutic uses of Omeprazole.
3. Classify diuretics. Write the mechanism of action, therapeutic uses and adverse effects of loop diuretics.

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

4. Heparin
5. Diazepam
6. Lithium
7. Atropine substitutes
8. Mast cell stabilizers
9. Insulin preparations
10. Cardioselective beta-blockers
11. Centrally acting skeletal muscle relaxants
12. Therapeutic uses and adverse effects of aspirin
13. Disease Modifying Anti Rheumatoid Drugs

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

14. What are Prodrugs? Write two examples.
15. Mention two drugs used in glaucoma.
16. Mention two antiarrhythmic drugs.
17. Mention two thrombolytics with their two side effects.
18. Rational of using carbidopa with L-dopa in Parkinson's disease
19. Mention four adverse effects of corticosteroids.
20. Mention two antihypertensives, which can be given safely in pregnancy.
21. Mention two drugs used in chronic gout.
22. Mention two drugs used in chronic constipation.
23. Mention two antiepileptic drugs with their adverse effects.

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2710_2013_2_S102

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Aug 2013

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 antihypertensive drugs. Explain their mechanism of action
2. Discuss various factors modifying drug action with examples
3. Classify analgesic and antipyretic agents. Discuss the pharmacological actions, adverse effects and therapeutic uses of aspirin

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

4. Explain the various uses of adrenergic drugs
5. Explain the adverse effects and uses of ACE inhibitors
6. *biotransformation*
7. Classify sedatives and hypnotics and list their therapeutic uses
8. Give the merits and demerits of intravenous route of drug administration
9. What are antithrombolytic agents? Give their clinical uses
10. Classify antiarrythmic agents
11. Write a note on purgatives
12. Write a note on bronchodilators
13. List various insulin preparations

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

14. State the uses of diuretics
15. Give the therapeutic uses of anticoagulants
16. List four adverse drug effects with examples
17. What are peripheral vascular diseases? Name two drugs to treat them
18. Mention the drugs to treat Parkinson's disease
19. Define the terms pharmacokinetics and pharmacodynamics
20. What is rheumatoid arthritis? Name two drugs used to treat it
21. What is a prodrug? Give examples
22. Give reason why L-dopa is given in combination with carbidopa
23. Write a note on lithium

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Aug 2013

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. What is Proprioceptive Neuromuscular Facilitation? Write about its principles and techniques of facilitation to improve mobility and strength.
2. Define Stretching. Explain the determinants, techniques, contraindications and effects of stretching.
3. Define Asanas and Pranayamas. Write about its principles, types and Contraindications.

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

4. What are Starting positions andits uses?
5. *Write a note on Static and Dynamic Power tests with examples.*
6. Write a note on Co-ordination tests.
7. Write about Pulmonary Function Test and its Importance.
8. *Write a note on Jacobsons relaxation technique.*
9. What are the uses and limitations of Goniometry?
10. Define Free exercises. Write about types and uses of free exercises.
11. Define Resisted exercises. Write in brief about its principles and uses.
12. Define Functional Re-education and write a note on Mat activities.
13. Write a note on grades of Mobilisation.
14. Define Closed-chain exercise, its effects with 2 examples.
15. Write a note on Isotonic exercises.
16. What is Anthropometry and its uses?
17. Write about principles and uses of Passive movements.

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

18. Endurance test
19. True limb length and its importance
20. What is Muscle tone and Postural tone?
21. Define Active movement.
22. 2 examples of isometric exercises
23. Define Open chain exercises.
24. 4 uses of Effleurage
25. Define Active and inactive postures.
26. 4 effects of Aerobic exercises
27. 2 types of Hydro Therapy techniques

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2712_2013_2_S157

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Aug 2013

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 production of Ultra sound and explain the various methods of application of this therapy. Add a note on coupling medium used.
2. Explain the production of Interferential currents; give the therapeutics and physiological effects of the same.
3. List the various tests used for electro diagnosis. Explain any 3 in detail.

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

4. Explain about condensers used in electro therapy units.
5. What is shock? Give the precautions to be taken to avoid the same.
6. Give the types of modified Direct currents used in physiotherapy. Describe any one in detail.
7. Write in detail on cathodal galvanism.
8. *Write a note on Jacobsons relaxation technique.*
9. What is Iontophoresis? Give the importance of its use in physiotherapy.
10. Explain the benefits of using micro currents.
11. Give indications and contra indications of IRR.
12. Explain the physiological effects of TENS and give a note on the indications for its use.
13. Describe the indications for use of bio feedback.
14. Give the principles of production of LASER.
15. Explain the type of applicators used in a LASER unit and its uses.
16. Outline the benefits of hot pack unit.
17. Describe the types of methods used for cryotherapy.

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

18. Use of a voltmeter in electrotherapy unit.
19. What are electrical burns?
20. Give 2 uses of diadynamic current.
21. Give 2 features of a sinusoidal current.
22. What is anodal galvanism?
23. Give 2 uses of MWD.
24. Define the term EMG.
25. Give 2 uses of a wax therapy.
26. Define Pain gate theory.
27. What is phonophoresis?

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination - Aug 2013

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 research. State the basic principles and importance of research in physiotherapy practice
2. Range of movement of 10 frozen shoulder patients were 38,42,45,36,40,44,40,45,34 and 36. Compute Mean, Median and Mode
3. Explain in detail about graphical presentation of data

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

4. Define biostatistics and discuss its importance
5. Explain the characteristics of good research design
6. Explain the assumptions and characteristics of hypothesis
7. Explain about the measurement scales
8. "Mean is a good average" – Justify
9. Explain about pie diagram
10. Basic principles of experimental design
11. Normal probability curve
12. Computer and its importance in physiotherapy research
13. Explain about Skewness and Kurtosis

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

14. Mode
15. Standard deviation
16. Ordinal data
17. Simple random sampling
18. Questionnaire and Schedule
19. Null hypothesis
20. Assumptions in ANOVA
21. Qualitative research
22. Simulation research
23. Histogram

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Aug 2013

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. Classify Neuromuscular-blocking agents. Discuss the mechanism of action, uses and ADR of Pancuronium.
2. Classify Diuretics. Discuss the mechanism of action, uses and adverse effects of loop diuretics.
3. Classify antiepileptics. Write the MOA, uses and advantages of Na. valpurate.

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

4. Angiotension converting enzyme inhibitors
5. Acute Morphine Poisoning
6. Anticholinesterase drugs
7. Dantrolene.
8. Cox-2 inhibitors
9. Non Benzodiazepine sedative hypnotics
10. Anaphylactic shock
11. Bronchodilators
12. Anabolic steroids
13. Newer insulins

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

14. One use and one adverse effects of DPT vaccine
15. One use and one adverse effects of Transdermal Patches
16. One use and one adverse effects of Cetrizine
17. One use and one adverse effects of Chlorzoxazone
18. One use and one adverse effects of Sodium nitroprusside
19. One use and one adverse effects of Esmolol
20. One use and one adverse effects of Aspirin
21. One use and one adverse effects of Metformin
22. One use and one adverse effects of Nifidopine
23. One use and one adverse effects of Frusemide



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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T. Degree Examination – Aug 2013

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. Enlist the factors influencing drug action. Explain any six of them.
2. Classify antihypertensive drugs. Write the mechanism of action and adverse effects of thiazides.
3. Classify penicillin. Write the mechanism of action, therapeutic uses and adverse effects of amoxicillin.

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

4. Thiopentone sodium
5. Nitrates
6. Angiotensin receptor blockers
7. Succinyl choline
8. Clozapine
9. Sodium valproate
10. Paracetamol
11. Mechanism of action and therapeutic uses of Allopurinol
12. Mechanism of action and adverse effects of Sulphonylureas
13. Therapeutic uses and contrairidications of beta blockers

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

14. Mention two drugs obtained from animal source.
15. Mention two uses and two adverse effects of morphine.
16. Mention two drugs used in anxiety.
17. Mention two insulin preparations.
18. Mention two inhalational bronchodilators and their two uses.
19. Rationale of using adrenaline with lignocaine
20. Enlist two drugs used in the treatment of Organophosphorus poisoning.
21. Mention two broad-spectrum antibiotics.
22. Mention two uses of metronidazole.
23. Mention two vaccines used against viral disease.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – Aug 2013

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. Explain wound healing by primary and secondary union.
2. Etiology and pathogensis of pulmonary tuberculosis

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

3. Poliomyelitis
4. Pathogensis of thrombus formation
5. Rodent ulcer
6. Hypertrophy
7. Down's syndrome

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

8. Coagulative Necrosis
9. Osteomalacia
10. Transmissible infections through blood (any three)
11. Name any 4 congenital heart diseases.
12. Name any 4 precancerous lesions.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – Aug 2013

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. Draw a neat, labeled diagram of bacterial cell. Write detail about bacterial flagella.
2. Describe the Morphology cultural characteristics and laboratory diagnosis of Corynebacterium diphtheriae.

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

3. Autoclave
4. Nosocomial Infections
5. Innate Immunity
6. Type IV Hypersensitivity reaction
7. Gram's staining

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

8. Name two ova's and cysts in stool sample.
9. Name Two opportunistic fungi.
10. B.C.G.
11. *Name two blood borne infections.*
12. Name two zoonotic infections.

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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.P.T Degree Examination – Aug 2013

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

THERAPEUTICS (0S, 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. What are resisted exercises? Explain the precautions for resisted exercises
2. Mat exercises
3. What are aerobic exercises? Explain the principles of aerobic exercises

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

4. Bronchial hygiene
5. Merits and demerits of suspension therapy
6. Delorme's technique
7. Indications and contraindications of hydrotherapy
8. Principles of manual muscle testing
9. Hand muscle strengthening
10. Define postural drainage. Give its indications and contraindications
11. Frenkel's exercise
12. Walking aids
13. Classification and uses of active exercises
14. Indications and contraindications of massage
15. Setting up of therapeutic gymnasium
16. Definition and types of relaxation
17. Hold-relax technique

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

18. Define endurance and its types
19. Tightness and contracture
20. Petrissage
21. Define flexibility
22. Repetition maximum
23. Muscle tone
24. What is stretching?
25. Equilibrium board
26. Pulleys
27. Functional position of hand

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