Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T Degree Examination – APRIL 2015

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

PHYSIOTHERAPY IN ORTHOPEDICS (OS, RS & RS2)

Q.P. CODE: 2169

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

LONG ESSAYS (Answer any Four) **4 x 10 = 40 Marks**

1. Define fracture. Classify fractures and explain in detail general guidelines of physiotherapy management following fracture.
2. Write in detail PT assessment of Below knee amputation and Rehabilitation for the same.
3. Write in detail physiotherapy management for fracture neck of Humerus.
4. Write in detail about Scoliosis, its classification, radiological features and PT management for the same.
5. Define IVDP, its stages and physiotherapy management following Stage III Disc prolapse.

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

6. Arthrodesis
7. Rehabilitation following Bankart's repair
8. Maitland mobilization
9. CTEV
10. Explain spondylolisthesis
11. Perthes disease
12. Post-polio syndrome
13. Brands many tailed tendon transfer
14. Complications of amputation

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

15. Late complications of fracture
16. Syndromes of McKenzie
17. Special tests for Bicipital tendinitis
18. Shin splints
19. Patella Alta and Patella Baja
20. Grades of soft tissue injury
21. Scheuermann's Kyphosis
22. SACH foot
23. Ilizarov technique
24. Any four contra indications of Maitland mobilization

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – APRIL 2015

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

PHYSIOTHERAPY IN GENERAL MEDICINE including CARDIO THORACIC MEDICINE - (OS, RS & RS2)

Q.P. CODE: 2170

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

LONG ESSAYS (Answer any Four) **4 x 10 = 40 Marks**

1. Explain the various clinical tests and investigations done for venous diseases and write the physiotherapy management for a patient who has developed venous ulcer on the right lateral foot
2. Define inflammation. Explain the types of inflammation and write the physiotherapy management for chromic inflammation
3. A 45 year old man had suffered an attack of myocardial infarct. He is on medications and suggested for conservative management plan a cardiac rehabilitation program for him
4. Explain any five anatomical and physiological differences each between adult lung and pediatric lung
5. Give any two points of differentiation between obstructive and restrictive lung disorders. Explain the clinical features and physiotherapy management of any one obstructive condition

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

6. What is psoriasis? Write physiotherapy management for the same
7. Explain physiotherapy management for lymphoedema of left lower limb
8. Write a note on Nebulisers
9. Explain any two techniques of PNf respiration along with physiological effects and uses
10. Explain the role of inspiratory muscle training (IMT) in chronic obstructive pulmonary disease and describe the technique to achieve it
11. Explain autogenic drainage as an airway clearance technique
12. Describe the postural drainage for right middle lobe of the lung
13. Explain the pathomechanics of any two deformities of hand in rheumatoid arthritis
14. Describe care of anaesthetic foot in peripheral vascular disease
15. Explain role of physiotherapy in fibromyalgia of trapezius

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

16. Describe Bucket-handle movement
17. What is SIMV mode?
18. Any two investigations positive for Ankylosing spondylitis
19. What is patent ductus arteriosus?
20. What are the grades of clubbing?
21. Any two exercises for cervical spondylosis
22. Four uses of breathing exercises
23. What is tramline appearance in Bronchiectasis on C.T. scan?
24. What is wheeze and ronchi?
25. Give two clinical features of vitamin – D deficiency

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – APRIL 2015

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

PHYSIOTHERAPY IN NEUROLOGY & NEUROSURGERY (OS, RS & RS2)

Q.P. CODE: 2171

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

LONG ESSAYS (Answer any Four) **4 x 10 = 40 Marks**

1. Discuss the assessment and management of a 50-year-old patient with head injury.
2. Classify stroke. Discuss the management of a hemiplegia shoulder.
3. Explain spinal cord injury. Give its type and management of any one.
4. Write the assessment and management in GB syndrome.
5. Write the assessment and management in multiple sclerosis disease.

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

6. Glasgow coma scale
7. Primitive reflexes
8. Neonatal screening and its uses
9. Vagus nerve testing
10. Entrapment syndrome and its management
11. Spastic bladder and its features
12. Assessment and management of facial palsy
13. Clinical features of ataxia and its management
14. Differentiate between UMN and LMN lesion.
15. Types of Spina bifida and their clinical features

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

16. Hemineglect
17. Types of MND
18. Ideomotor apraxia
19. Foot drop
20. Cortical sensations
21. Slump test
22. Uses of EMG
23. Gower's sign
24. Sunset sign
25. Aphasia

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – APRIL - 2015

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

PHYSIOTHERAPY IN GENERAL SURGERY including CARDIOTHORACIC CONDITIONS - (OS, RS & RS2)

Q.P. CODE: 2172

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

LONG ESSAYS (Answer any Four) **4 x 10 = 40 Marks**

1. Explain physiotherapist role in ICU.
2. PT management of burr hole surgery
3. Enumerate in detail PT management in cancer.
4. Enumerate the abdominal incisions. Explain the role of physiotherapy after kidney transplant.
5. What is valvotomy and valve replacement? Explain the role of physiotherapy after mitral valve replacement.

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

6. Prolapsed rectum
7. Write a note on hernia.
8. Explain the PT management of coronary heart disease.
9. Pelvic inflammatory disease
10. Explain the PT management of cholecystectomy.
11. Describe the types of wound healing.
12. Write a note on pulmonary embolism.
13. Define gangrene and its types.
14. Role of physiotherapy in Nephrectomy
15. Define skin graft and its types.

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

16. Lymphoederma
17. Incontinense and types
18. CP angle
19. Intermittent Claudication
20. Arterial septal defect
21. PEEP
22. Nebulizers and types
23. Metabolic alkalosis
24. Fat emboli
25. Aneurysm

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – APRIL 2015

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

COMMUNITY BASED REHABILITATION (OS, RS & RS2)

Q.P. CODE: 2173

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 functions of primary health care centre.
2. Describe various methods of conducting surveys in rural India to identify people with disability.
3. Define CBR. Write the differences between institution based and community based rehabilitation.

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

4. Disability evaluation of upper limb amputee
5. What are government schemes for the disabled with respect to education and employment?
6. Role of social worker in rehabilitation
7. Village rehabilitation worker
8. Enumerate the modifications required for architectural barriers faced by disabled.
9. Screening methods for mentally challenged children in rural areas
10. Immunization programmes
11. Home exercise program for muscular dystrophy in ambulatory stage
12. Extension services and mobile units
13. Vocational rehabilitation for visually handicapped

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

14. Iatrogenic drug reactions
15. Define surycy.
16. Play therapy
17. Epidemic threshold
18. Basic principles of CBR
19. Gower's sign
20. Define geriatrics.
21. What is post polio residual paralysis?
22. United Nations development program
23. Importance of World disability day

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

NEURO PHYSIOTHERAPY (RS – 3 & RS - 4)

Q.P. CODE: 2720

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 multiple sclerosis. Write about clinical features, assessment and PT management of multiple sclerosis in 55 year old male since 2 years.
2. 28 year old female diagnosed as complete spinal cord injury at level T4-T5 since 2 years. Write about clinical features, assessment and management of the same.
3. Define stroke and write about clinical features, assessment and PT management of sub arachnoid haemorrhage at left frontal lobe of brain in 72 years old.

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

4. Write a note on neuro developmental therapy.
5. Co-ordination exercises for upper limb in cerebellar disorders
6. Physiotherapy management for unilateral neglect
7. Write about effects and uses of electrical stimulation in neurological rehabilitation.
8. Physiotherapy management of median nerve palsy with 1 month duration
9. Write about indications, effects and uses of passive stretching.
10. Write any one assessment scale for activities of daily living
11. Difference between spasticity and flaccidity
12. Write about long term PT management in severe traumatic brain injury.
13. Write about effects and uses of partial weight bearing treadmill training.
14. Physiotherapy management of high stepping gait
15. Write about effects and uses of proprioceptive neuromuscular facilitation patterns
16. Write about any two neurophysiological approaches in management of stroke.
17. Indication and uses of F.G test

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

18. Rigidity and its types
19. Knuckle bender splint
20. Dystonia
21. Sensory ataxia
22. Testing of 12^{th} cranial nerve
23. Rhomberg's sign
24. ULTT 1
25. Cardinal signs of Parkinson's disease
26. Movement decomposition
27. Apraxia and its types

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – APRIL - 2015

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

COMMUNITY MEDICINE (RS-3 & RS-4)

Q.P. CODE: 2721

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

ESSAYS TYPE (Answer any two out of three) **2 x 10 = 20 Marks**

1. Define epidemiology. Mention the principles of epidemiology. Describe various epidemiological studies.
2. Define health. Explain dimension and indicators of health.
3. Enumerate the national health programmes. Explain national leprosy eradication programme.

SHORT ESSAYS TYPE (Answer any Eight out of Ten) **8 x 5 = 40 Marks**

4. Community nutrition programmes
5. Causes of maternal mortality
6. Disaster management
7. Functions of family
8. Pulse polio immunization
9. Child health programmes
10. Uses of a growth chart
11. Models of health education
12. Functions of world health organization
13. Postnatal care

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

14. Deformities in leprosy
15. Tertiary level of prevention
16. Vitamin A prophylaxis
17. Sources of air pollution
18. DOTS
19. Warning signals of cancer
20. National family welfare programme
21. Window period in HIV
22. Incineration
23. Odd ratio

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – APRIL 2015

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

COMMUNITY BASED REHABILITATION
(RS3 & RS4)

Q.P. CODE: 2722

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 the Multi sectoral approach to CBR. Enumerate the role of each sector / groups of people in the development and implementation of CBR program
2. Describe the process of work hardening for a person who has undergone L_4-L_5 discectomy 2 months ago and now wants to return back to work as a long distance driver
3. Develop a home exercise program for a 8 year old spastic diplegic who is ambulating with a help of walker and an Ankle Foot Orthosis

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

4. Write a short note on Principles of health education for promoting CBR activities
5. Out reach programs in CBR
6. Mention the services provided by the government for persons with disability
7. List the different types of employment opportunities which are suitable for a 20 year old lady with mild mental retardation
8. List and specify the role of members who form the part of a vocational rehabilitation team
9. Describe the methods in social work
10. What are the home environment modifications which you would initiate for a 70 year old man living at home with his wife also of the same age
11. Develop a health awareness program for preventing Coronary Artery Disease based on the different levels of prevention
12. What are the barriers to community participation in CBR programs?
13. Define disability. List the various types and the causes for various types of disabilities
14. Role of Non Governmental organizations in CBR
15. Discuss the need for disability evaluation
16. Prepare a brief care giver educations program for a child born with special needs
17. Advantages and disadvantages of CBR program

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

18. Short falls of Institution Based Rehabilitation
19. Importance of disability surveys
20. 2 purposes of doing a vocational evaluation
21. 4 factors limiting the role of government in CBR activities
22. 4 funding possibilities for sustaining a CBR project
23. Role of anganwadi worker in CBR activities
24. Mention 4 national level health care programs
25. Role of placement officer
26. WHO, ILO definition of CBR
27. Importance of high risk screening in neonates

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

Neurology

Q.P. Code: 2723

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

(Note: Both QP Codes 2723 and 2724 are to be answered within total duration of 3 hours)

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

1. Write about post polio syndrome, its pathophysiology, clinical features and management.
2. Define Spina Bifida. Write about its causes, clinical features and management.

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

3. Assessment of Autonomic Nervous system
4. Dysphagia and its management
5. Causes and management of facial palsy
6. Clinical features and management of Wilson's disease
7. Importance and uses of CSF examination

SHORT ANSWERS 5 x 2 = 10 Marks

8. Dystonia
9. Botulism
10. Autism
11. NCV and its uses
12. Ataxia

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

Neurosurgery

Q.P. Code: 2724

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

(Note: Both QP Codes 2723 and 2724 are to be answered within total duration of 3 hours)

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

1. Define meningitis. Explain clinical features, pathophysiology and management.
2. Explain clinical features, investigations and management of lumbar inter vertebral disc prolapse (IVDP).

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

3. Indication and complication of Burr-hole procedure
4. Glasgow coma scale (GCS)
5. Brain tumors
6. Meningocele and its management
7. Management of neurogenic pain

SHORT ANSWERS 5 x 2 = 10 Marks

8. Deep brain stimulation
9. What is Erb's palsy?
10. Lacunar stroke
11. Neural implantation
12. Define Syringomyelia.

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T Degree Examination – SEPTEMBER 2015

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

PHYSIOTHERAPY IN ORTHOPEDICS (OS, RS & RS2)

Q.P. CODE: 2169

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

LONG ESSAYS (Answer any Four) **4 x 10 = 40 Marks**

1. Define Ankylosing spondylitis. Its clinical features and physiotherapy management following same
2. Write in detail PT assessment following supra condylar fracture of humerus and rehabilitation for the same.
3. Write in detail physiotherapy management of Rheumatoid arthritis.
4. Describe in detail about soft tissue injuries and PT management for the same.
5. Define Total Hip Arthroplasty and its Rehabilitation

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

6. External fixators
7. Phantom limb
8. Surgeries in poliomyelitis
9. Cervical rib and its PT management
10. Rotator cuff lesions of shoulder
11. Ergonomic measures for low back ache
12. Potts fracture
13. PT management following Synovitis
14. Rehabilitation following ACL reconstruction

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

15. Name spinal stabilization surgeries
16. Fat embolism
17. Grafts used in ACL reconstruction
18. Dislocation and Subluxation
19. Grades of soft tissue injuries
20. Cubitus valgus and varus
21. Splints used in Rheumatoid arthritis
22. Name the stages of Fracture healing.
23. Monteggia fracture dislocation
24. Sudeck's osteodystrophy

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – SEPTEMBER 2015

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

PHYSIOTHERAPY IN GENERAL MEDICINE including CARDIO THORACIC MEDICINE - (OS, RS & RS2)

Q.P. CODE: 2170

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

LONG ESSAYS (Answer any Four) **4 x 10 = 40 Marks**

1. Define bronchitis and write in detail PT management for the same.
2. Explain in detail PT management for a 60 year old female patient with rheumatoid arthritis.
3. Describe in detail the physiotherapy management for pulmonary tuberculosis.
4. Write in detail PT management for acute myocardial infarction.
5. Write in detail PT management for ARDS.

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

6. Describe the types of pneumothorax and PT management for the same.
7. Complications of ventilator support
8. What are the benefits of exercise training?
9. Write the physiotherapy management for osteoarthritis.
10. Write the PT management of pulmonary embolism.
11. Define bursitis and write the physiotherapy management for the same.
12. Explain the PT management for alopecia.
13. Write a note on nutritional disorder.
14. Explain the PT management for hypertension.
15. Write a note on endocarditis.

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

16. Vital capacity
17. Nebulizers
18. Emphysema
19. Hypocapnia
20. Oedema
21. Define spondylitis.
22. Define ulcers and its types.
23. Acne vulgaris
24. Endotracheal intubation
25. Fibromyalgia

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – SEPTEMBER 2015

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

PHYSIOTHERAPY IN NEUROLOGY & NEUROSURGERY (OS, RS & RS2)

Q.P. CODE: 2171

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

LONG ESSAYS (Answer any Four) **4 x 10 = 40 Marks**

1. Discuss the assessment and management of a 60-year-old patient with Parkinsonism.
2. Classify ataxia. Discuss the management of Friedreich ataxia.
3. Explain congenital spinal cord lesions. Give its type and management of any one.
4. Write the assessment and management of complete head injury.
5. Write the assessment and management in multiple sclerosis disease.

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

6. ASIA scale
7. Primitive reflexes
8. Neonatal screening
9. Accessory nerve testing
10. Entrapment syndrome and its management
11. Flaccid bladder and its causes
12. Assessment and management of alcoholic neuropathy
13. Clinical features of transverse myelitis and its management
14. Differentiate between spasticity and flaccidity.
15. Types of spinal cord injuries and their clinical findings

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

16. Topographical disorientation
17. Kernig's sign
18. Saltatory conduction
19. Wrist drop
20. Deep sensations
21. Clinical feature of increased ICP
22. Bell's palsy
23. Astereognosis
24. Axonotomesis
25. Bulbocavernus reflex

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – SEPTEMBER 2015

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

PHYSIOTHERAPY IN GENERAL SURGERY including CARDIOTHORACIC CONDITIONS - (OS, RS & RS2)

Q.P. CODE: 2172

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

LONG ESSAYS (Answer any Four) **4 x 10 = 40 Marks**

1. Write the physiotherapy assessment and management for patient with varicose vein.
2. Mention the indications and contraindications of CABG and explain the post operative physiotherapy management for the same.
3. Explain in detail about the pre and post operative physiotherapy management of 35 year old male patient with left pleural effusion.
4. Write down the principles of tendon transfer and explain in detail the physiotherapy role in wrist-drop tendon transfer.
5. Write in detail the role of physiotherapy in Antenatal and Postnatal care.

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

6. Buerger's exercise and its significance
7. Name types of Ventilators. Add a note on weaning from ventilator.
8. Explain in detail post operative physiotherapy management in Lobectomy.
9. Complications of Pulmonary surgeries
10. Write the physiotherapy management for hysterectomy.
11. Complications of cardiac surgery
12. Physiotherapy management of a scar
13. Explain the physiotherapy management for Torticollis.
14. Explain the role of post surgical physiotherapy in intra cranial tumors.
15. Explain in detail the Bruce protocol.

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

16. Systic fibrosis
17. Haemoptysis
18. ABG
19. Hypocapnea
20. Peripheral vascular disease
21. ECG
22. Incontinence and its types
23. Atherosclerosis
24. Intra aortic balloon pump
25. Primary ciliary dyskinesia

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – SEPTEMBER 2015

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

COMMUNITY BASED REHABILITATION (OS, RS & RS2)

Q.P. CODE: 2173

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 will you educate the caregiver on home care for spinal cord injury.
2. Define high risk screening. Write in detail about screening for mental retardation.
3. Write about disability evaluation for lower limb amputation.

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

4. Rural health scheme
5. Name five international health organizations and explain their role in CBR.
6. Primary rehabilitation unit
7. Strategies to improve ADL
8. Importance of parental counselling
9. Define functional and features of extension services.
10. Describe prevocational evaluation.
11. Home modification for aged
12. Health promotion in work place
13. Role of women in rehabilitation

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

14. Mobility devices
15. Post polio residual paralysis
16. Care homes
17. Need for vocational evaluation
18. Tests for dementia
19. Work related musculoskeletal disorders
20. Define rehabilitation.
21. Barriers to community participation
22. Regional rehabilitation training centres
23. Community resources

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – SEPTEMBER 2015

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

ALLIED THERAPEUTICS (OS, RS & RS2)

Q.P. CODE: 2174

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 Obesity. Explain the methods of weight control in terms of diet and exercise.
2. Explain the physiological effects of Yoga and add a note on asanas with their benefits.
3. Describe in detail the skill related fitness and the methods of its evaluation.

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

4. Dangers of strength training in child athletes
5. Dynamics of protein metabolism
6. Role of anabolic steroids in sports performance
7. Discuss the active and passive forms of recovery after a strenuous bout of exercise.
8. What is Blood doping? Mention its advantages and disadvantages.
9. Discuss the risk factors for injury.
10. Role of pre-competition meal
11. Explain the relaxation techniques in stress management.
12. Write a note on dangers, indications and contraindications of Acupuncture.
13. Mention the importance of open chain and closed chain exercise.

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

14. Role of water in diet
15. Mention the effects of Sauna Bath.
16. Define Pranayama.
17. Define Plyometrics.
18. Any two uses of magnets
19. Ying Yang
20. Uses of cool-down period
21. Grades of strain
22. Shuttle test
23. Food pyramid

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

NEURO PHYSIOTHERAPY (RS – 3 & RS - 4)

Q.P. CODE: 2720

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 clinical features, assessment and physiotherapy management of a 15 year old girl with Guillain-Barre syndrome duration of 1 year
2. Explain the assessment and physiotherapy management of a 45 year old woman with left MCA stroke duration of 1 month.
3. Explain gait analysis & PT management of Festinating gait.

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

4. Explain the assessment and physiotherapy management of Amyotrophic Lateral Sclerosis.
5. Explain the assessment and management of a 7 year old child with Autism.
6. Define developmental screening. Add a note on its importance in rehabilitation.
7. Explain the physiotherapy management of Syringomyelia.
8. Write the assessment and physiotherapy management of a patient with Erb's palsy.
9. Explain the tests for sensation.
10. Enumerate the energy conservation techniques in Myasthenia gravis and its importance in rehabilitation.
11. Write a note on the facilitatory and inhibitory techniques used in Rood's approach.
12. Explain the types of Neurogenic bladder.
13. Explain the Hold relax and Contract relax techniques of PNF.
14. Write a note on Neonatal reflexes.
15. Explain Rancho Los Amigos scale for head injury.
16. Explain the physiotherapy management of disc prolapse at level 5.
17. Write a note on constraint induced movement therapy.

SHORT ANSWERS (Answer any Ten) **10 x 2 = 20 Marks**

18. Micrographia
19. MMT grading
20. Explain any two of the Vojta's reactions.
21. Waddling gait
22. APGAR score
23. Kernig's sign
24. Graphesthesia
25. Slump test
26. Define spasticity and rigidity.
27. Anosognosia

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

COMMUNITY MEDICINE

(RS-3 & RS-4)

Q.P. CODE: 2721

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

ESSAYS TYPE (Answer any two out of three) **2 x 10 = 20 Marks**

1. Mention the classification of epidemiological studies. Describe the steps involved in case control studies.
2. Define ergonomics. Explain various measures for prevention of occupational diseases
3. What are the principles of health education? Briefly describe the various methods of health communication.

SHORT ESSAYS TYPE (Answer any Eight out of Ten) **8 x 5 = 40 Marks**

4. MTP Act
5. Measles vaccine
6. Classification of health care waste
7. Sources of health information
8. Modes of transmission in HIV/AIDS
9. DOTS (directly observed treatment short course chemotherapy
10. Prevention of Cardio vascular diseases
11. Uses of growth chart
12. Signs of vitamin A deficiency
13. Health problems of the aged

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

14. Types of disasters
15. Condoms
16. What is safe and wholesome water
17. Diseases transmitted by mosquitoes
18. Treatment of Paucibacillary leprosy
19. Types of human Plague
20. Biological effects of radiation
21. Define screening and mention the uses of screening tests
22. Levels of health care
23. Maternal and child health indicators

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – SEPTEMBER 2015

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

Community Based Rehabilitation (RS – 3 & RS - 4)

Q.P. CODE: 2722

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 community based rehabilitation and write the difference between institutional and community based rehabilitation.
2. Define disability. Explain the types of disability. Add a note on prevention of disability.
3. Define work related musculoskeletal disorder. Explain work hardening programme for a person with chronic low back pain who is on conservative management for the same.

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

4. Ideal chair for computer professional
5. What is the role of International health organizations in CBR?
6. Brief about ICF
7. Classify occupational hazards. Explain any one.
8. Write short note on disability evaluation.
9. Management of Parkinsonism patient in community setup
10. Rehabilitation of cerebral palsy in community setup
11. District rehabilitation centers
12. Vocational rehabilitation services
13. Immunization programmes
14. Differentiate work hardening and conditioning.
15. What are the barriers to community participation in CBR programmes?
16. Role of social worker in CBR
17. Extensive services and mobile units

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

18. Define mental retardation.
19. Define impairment.
20. Iatrogenic drug reaction
21. Name two screening tests in high risk babies.
22. Functions of Red Cross in the field of CBR
23. Biological hazards
24. Two functions of Anganwadi workers
25. Mention two benefits for visually handicapped in India.
26. Camp approach
25. Integrated child development centers

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

Neurology

Q.P. Code: 2723

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

(Note: Both QP Codes 2723 and 2724 are to be answered within total duration of 3 hours)

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

1. Define epilepsy. Explain etiology, classification and clinical features of epilepsy.
2. Spinal cord injuries – explain types, clinical features and management.

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

3. Write brief note on examination of occulomotor nerve and its functions.
4. Transverse myelitis and its management
5. Write clinical features and management of myasthenia gravis.
6. Write causes and management of encephalitis.
7. Explain movement dysfunction in case of cerebellar ataxia.

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

8. Define spasticity.
9. Define vertigo.
10. What is Babinski sign?
11. Carpel tunnel syndrome
12. What is dementia?

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Rajiv Gandhi University of Health Sciences, Karnataka

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

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

Neurosurgery

Q.P. Code: 2724

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

(Note: Both QP Codes 2723 and 2724 are to be answered within total duration of 3 hours)

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

1. Classify peripheral nerve injury. Explain clinical features and management of radial nerve injury.
2. Define Head injury. Explain its classification, clinical features, investigation and management

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

3. Define Meningocele
4. Explain Hydrocephalus and its management
5. Indications and complications of hemilaminectomy
6. Define Syringomyelia and management
7. Neurogenic bladder – clinical features and management

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

8. Indications of burr-hole procedure.
9. Give two uses of CSF examination.
10. Scotoma
11. Ptosis
12. What is autonomic dysreflexia?

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