# Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T Degree Examination – May 2016

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 rheumatoid arthritis and add note on its diagnostic criteria and in detail PT management for the same.
2. Define ankylosing spondylitis, its clinical features, diagnostic testing and PT management for the same.
3. Define THR. Explain in detail the assessment and PT management for the same.
4. Explain in detail assessment and PT management for a computer operator who is diagnosed as a carpal tunnel syndrome. Add a note on ergonomic measures.
5. 25 year old male is diagnosed as grade II rotator cuff tear plan your assessment and management for the same.

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

6. Explain the principles of tendon transfer.
7. TA rupture its grading and PT management
8. Explain in detail diagnostic testing of ligament injuries of knee joint.
9. Stump care and bandaging
10. Discuss in detail various syndromes of MC Kenzie.
11. List out the deformities in cerebral palsy and add a note on its surgical corrections.
12. Tennis elbow
13. Thoracic out let syndrome and its diagnostic tests
14. Explain the grades of Maitland mobilization, its indications and contraindications.

SHORT ANSWERS 10 x 2 = 20 Marks

15. Step sign
16. Grading of ligament injury
17. Significance of SLR
18. Types of braces used in scoliosis
19. Pott's fracture
20. Calcaneal spur
21. Mention the parts of upper limb prosthesis.
22. Types of orthosis used in CTEV
23. Genu Valgum and Varum
24. Slump test

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# Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – May 2016

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. What is Psoriasis? Write in detail the PT management for the same.
2. Describe PT management for a patient has Left Lower Lobe Pneumothorax who has an Intercostal drainage tube and has developed Atelectasis.
3. Write in detail PT management for a patient, 65 years, male, who has Pulmonary Tuberculosis.
4. Enumerate Neurophysiological facilitation of respiration.
5. Explain in detail PT management for a patient aged 45 years who had Myocardial Infarction and is in ICU.

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

6. Physiotherapy management for Burgers disease
7. Complications of Ventilatory Support
8. Explain physiotherapy management for Osteo Arthritis.
9. Cyanosis and types
10. Physiotherapy management for Tetrology of Fallot
11. Intermittent Positive Pressure Breathing
12. Role of physiotherapy in the treatment of Phlebitis
13. Bursitis and its PT management
14. Rickets
15. Endocarditis

SHORT ANSWERS 10 x 2 = 20 Marks

16. Leucoderma
17. Mitral regurgitation
18. Arteriosclerosis
19. Fibrositis
20. Ankylosing Spondylosis
21. Forced Expiratory Technique
22. Active Cycle Breathing Technique
23. Pericarditis
24. Pump-Handle Movement
25. Metabolic Acidosis

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# Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – MAY 2016

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. Define cerebral palsy. Discuss the assessment and management of Spastic C.P
2. Discuss the assessment and management of Guillian Barre syndrome
3. Discuss the assessment and management of friedreich's ataxia
4. Explain all the symptoms seen in neurological disorders with examples
5. Give the causes of stroke and management of stroke due to hemorrhage

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

6. Tabes dorsalis
7. Hypertonia and hypotonia
8. Write a note on sensory integration(SI)
9. Neonatal reflexes
10. Tests used in cerebellar ataxia
11. Lumbar puncture and its drawbacks
12. Toxic myopathy
13. Spasticity management
14. High risk babies
15. Functions of cerebellum

SHORT ANSWERS 10 x 2 = 20 Marks

16. Verbal rating scale
17. Define agnosia
18. Maternal substance abuse
19. List the descending tracts
20. Nystagmus
21. Bell's phenomenon
22. Rigidity
23. Define neuropraxia
24. Cremastric reflex
25. Intrinsic plus hand

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# Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – May 2016

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 the physiotherapy management for a 40 year old female who has burns left thigh up to knee.
2. Explain the pre and post surgical physiotherapy management for a patient with pleural effusion.
3. Describe the physiotherapy management for abdominal hernia.
4. Explain the phases of cardiac rehabilitation in detail.
5. Describe the physiotherapy management for a 40 year old female with radical mastectomy.

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

6. Write a note on inhalation injuries.
7. Define incontinence and explain the types of incontinence.
8. Describe the physiotherapy management following skin grafts.
9. Explain the pre natal physiotherapy management for a 27 year old female with the history of low back pain.
10. Write in detail the physiotherapy management for a 40 year old bus conductor having the deep vein thrombosis.
11. Name the pulmonary surgery and mention the complications of pulmonary surgeries.
12. Explain the physiotherapy management for spleenectomy.
13. Explain the various inspiratory and expiratory exercises.
14. Explain the principles of tendon transfer.
15. Explain the role of physiotherapy after pneumonectomy.

SHORT ANSWERS 10 x 2 = 20 Marks

16. Homograft
17. Define thrombosis.
18. Rhizotomy
19. Name the abdominal muscles.
20. Define gangrene and mention the types of gangrene.
21. Lobectomy
22. CPAP
23. Rules of 9
24. Types of hysterectomy
25. Define aneurysm.

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# Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – May 2016

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. Define CBR. Explain the functions of the primary health centers.
2. Define screening. Write detailed about detection of high-risk babies. Add a note on immunization programme.
3. Define work related musculoskeletal disorder. Explain rehabilitation programme for various musculoskeletal disorder.

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

4. Discuss vocational training in rehabilitation.
5. Social problems of old age
6. Discuss role of government in CBR.
7. Differentiate work hardening and conditioning.
8. Role of social worker in CBR
9. List the national development programme.
10. Management of incontinence
11. How to plan CBR programme?
12. Explain wheel chair parts.
13. Management of Down's syndrome in community setup

SHORT ANSWERS 10 x 2 = 20 Marks

14. Role of extensive service
15. Define community.
16. Role of village rehabilitation worker
17. Name two screening tests in high-risk babies.
18. Uses of longitudinal study
19. Causes of mental retardation
20. Define institutional based rehabilitation.
21. What is camp approach?
22. Define social worker.
23. Need for CBR

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# Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – MAY 2016

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. Explain the cardio-respiratory adaptations to physical training.
2. Classify Ergogenic aids. Add a note on pharmacological agents used as ergogenic aids.
3. What is Eustress? Write a note on stress management strategies employed by the athletes.

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

4. Discuss the importance of a carbohydrate diet before an athletic meet.
5. Explain Mud therapy and its benefits.
6. Mention the principles of Magneto therapy.
7. Explain the therapeutic effects of Acupuncture.
8. Discuss the principles of Exercise Prescription.
9. Enumerate the importance of warm-up and cool-down phases in exercise training.
10. Write a note on training in high altitude.
11. Explain the role of diet and exercise in management of Obesity.
12. Explain the causes of Fatigue and how to prevent it.
13. Explain the intrinsic and extrinsic factors causing sports injuries.

SHORT ANSWERS 10 x 2 = 20 Marks

14. Define Basal Metabolic Rate.
15. Mention any four contraindications to Exercise Testing.
16. Define Hyperplasia.
17. What is Electro-Acupuncture?
18. Mention any four uses of Fat.
19. Mention the stages of tissue healing.
20. Define Flexibility.
21. Define Pranayama.
22. DOMS
23. What is transfer of training?

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – May 2016

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. Enumerate types of tests in cerebellar disorder. Write about PT management of ataxic gait.
2. What are the causes of Erb's palsy? Write about the assessment and PT management of 1½ year old baby with right side Erb's palsy.
3. Define transverse myelitis. Write about clinical features, assessment and PT management of T5 level transverse myelitis in 30 year old male since 4 years.

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

4. Write about effects and uses of passive movements in neurological rehabilitation.
5. Write a note on motor relearning programme.
6. Physiotherapy management of sciatic nerve palsy (Neuropraxia)
7. Importance of mat exercises
8. Write about effects and uses of inhibitory techniques in Roods approach.
9. Physiotherapy management of Ape thumb deformity
10. Enumerate the cranial nerves and explain testing of any two cranial nerves.
11. Physiotherapy management of postural disturbances in Parkinson's disease
12. Define spasticity and two methods of spasticity management.
13. Physiotherapy management of Parkinson's gait
14. Write about effects and uses of hydrotherapy in cerebral palsy management.
15 Physiotherapy management of Bell's palsy with duration of 2 days
16. Write about primitive reflexes.
17. Physiotherapy management of TB meningitis with duration of 3 months

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

18. Decorticate and decerebrate rigidity
19. Ulnar paradox
20. Aphasia and its types
21. Bell's phenomenon
22. Hemiballismus
23. 4 uses of Tilt Table
24. What is Nystagmus?
25. Types of peripheral nerve injuries
26. Uses of SLR test
27. Gower's sign

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – May 2016

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

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

1. Enumerate various National Health Programmes for maternal and child health in India. Mention the package of services of ICDS
2. What is Family planning? Explain the merits and demerits of various family planning methods
3. Define Primary Health Care. List the elements and explain in brief the principles of Primary Health Care

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

4. Write briefly on Census
5. Radical treatment of Malaria
6. BCG vaccine
7. High risk pregnancy
8. Activities of Indian Red Cross Society
9. Sickness Absenteeism
10. Explain briefly oral Rehydration Therapy (ORT)
11. Danger signals of cancer
12. Acute flaccid paralysis surveillance
13. Effects of Noise Exposure

SHORT ANSWERS (Answer any Ten) 10 x 3 = 30 Marks

14. Prevalence
15. Vaccine Vial Monitor
16. Mid day school meal programme
17. Colour codes in Hospital waste management
18. Define low birth weight
19. Sanitation barrier
20. Lead time in screening for disease
21. Balanced diet
22. Types of disinfection
23. Sources of hospital waste

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – MAY 2016

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. Explain role of physiotherapy in CBR. How do you prescribe exercise programme for a hemiplegic patient at home.
2. Define screening. Write detailed about detection of high risk babies. Add a note on immunization programme.
3. Define community. Discuss community initiated versus community oriented programme.

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

4. Discuss vocational training in rehabilitation.
5. Social problems of old age
6. Difference between impairment, disability and handicapped
7. Discuss disability evaluation.
8. Management of dementia patient in community setup
9. Benefits for people with disability according to the PWD Act
10. Ergonomic advice for subject with back pain
11. Describe role of voluntary organization in CBR.
12. Bracing material used in rural rehabilitation
13. Discuss role of government in CBR.
14. How to plan CBR programme?
15. Discuss about genetic counseling.
16. Explain wheel chair parts.
17. Management of Down's syndrome in community setup

SHORT ANSWERS 10 x 2 = 20 Marks

18. Role of extension service
19. Define community.
20. Role of village rehabilitation worker
21. Mention four environmental modifications at home for a geriatric person.
22. Functions of UNICEF
23. Causes of mental retardation
24. Define institutional based rehabilitation.
25. What is camp approach?
26. Define social worker.
27. Need for CBR

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - May 2016

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:BothQPCodes2723and2724aretobeansweredwithintotalduration of 3 hours)

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

1. What is myasthenia gravis? Explain clinical features, investigations and management of myasthenia gravis.
2. Explain clinical features and pathophysiology of Parkinson disease. Add a note on management of tremor.

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

3. Describe clinical features of spastic cerebral palsy and its management.
4. Discuss various types of motor neuron disease and its clinical features.
5. Write about clinical features of autism.
6. Syringomyelia and its clinical features
7. Higher mental functions

SHORT ANSWERS 5 x 2 = 10 Marks

8. What is Babinski sign?
9. UMN bladder
10. Carpal tunnel syndrome
11. Importance of NCV test
12. Hyperacusis

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - May 2016

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:BothQPCodes2723and2724aretobeansweredwithintotaldurationof3hours)

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

1. Define meningitis. Explain clinical features, pathophysiology and management.
2. Define Spina bifida. Explain clinical features, investigation and management

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

3. Explain Laminectomy and Rhizotomy
4. Explain Glasgow coma scale (GCS)
5. Write a note on management of Brain tumours
6. Define Meningocele and its management
7. Explain Management of neurogenic pain

SHORT ANSWERS 5 x 2 = 10 Marks

8. Indications for craniotomy
9. Thalamotomy
10. Give two indication for Burr hole surgery.
11. Trigeminal neuralgia
12. Ptosis

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Rajiv Gandhi University of Health Sciences, Karnataka

# IV Year B.P.T. Degree Examination – SEP-2016

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. Classify muscular dystrophies. Explain the clinical features, assessment and physiotherapy management of a 10 year old boy with Duchennes Muscular dystrophy.
2. Explain the principles and techniques of Proprioceptive neuromuscular facilitation in detail.
3. Explain the assessment and management of a 25 year old man with radial nerve injury duration of 1 month.

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

4. Explain the principles of Motor relearning program.
5. Explain the management of Down's syndrome.
6. Explain the management of Pudendal nerve palsy.
7. ASIA scale and its implications
8. Explain the assessment and management of hemiplegic gait.
9. Write a note on clinical features of Friedreich's ataxia and its management.
10. Explain the treatment plan for Guillain-Barre syndrome during its recovery stage.
11. Explain the assessment and management of common peroneal nerve palsy.
12. Explain the fuctional re-education programme for a T-5 level paraplegic patient.
13. Define spasticity and write a note on the assessment of spasticity.
14. Explain the assessment and management of Bell's palsy.
15. Define Pranayama and add a note on its benefits.
16. Define developmental screening. Write a note on developmental screening tests.
17. Write a note on classification of nerve injuries.

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

18. Ape-thumb deformity
19. Glabellar tap test
20. Sun set sign
21. Scissoring gait
22. Corneal reflex
23. Kernig's sign
24. Define Apraxia and its types.
25. Post polio syndrome
26. Reflex grading
27. Explain rigidity and its types.

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – SEP 2016

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. Role of Voluntary Organizations in CBR.
2. Explain different levels of rehabilitation under national rehabilitation programme.
3. Explain community based approach and community entry strategies.

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

4. Scope of CBR
5. Explain programmed sustainability and community Participation.
6. Disability survey
7. Uses of disability evaluation findings
8. Role of government and its policies in CBR
9. Define social work and explain methods of social work.
10. Write about modifications in physical and architectural barriers for disabled.
11. Early detection of high risk babies
12. Immunization programmes
13. Camp approach
14. Institution based geriatric rehabilitation
15. Introduction and need for vocational rehabilitation
16. Explain Bio-safety measures in all levels.
17. Explain fatigue injuries due to ergonomic alteration. Evaluate the workplace

SHORT ANSWERS 10 x 2 = 20 Marks

18. Ingestion
19. UNICEF
20. Local Dias
21. Half way homes
22. Types of Rehabilitation
23. Define Ergonomics.
24. Anxiety of work
25. Define Survey.
26. Regional Training Centre
27. Social Worker

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