



# Rajiv Gandhi University of Health Sciences, Karnataka

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

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)**

**1 x 10 = 10 Marks**

### **LONG ESSAYS (Answer any One)**

1. Discuss in detail about classification, clinical feature & management of head injury
2. Discuss in detailed about clinical features investigation, differential diagnosis & management of parkinsonism

### **SHORT ESSAYS (Answer any Four)**

**4 x 5 = 20 Marks**

3. Write a note on facial palsy
4. Write a note on epilepsy
5. Evoked potential
6. Write a note on chorea
7. Friedreich ataxia

### **SHORT ANSWERS**

**5 x 2 = 10 Marks**

8. Dysphagia
9. Metabolic ataxia
10. Wilson's disease
11. Complications of rheumatic fever on nervous system
12. Myoclonus

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# Rajiv Gandhi University of Health Sciences, Karnataka

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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. IVDP, causes, clinical features, investigation & management
2. Define reflex sympathetic dystrophy – clinical features, investigation, management

### **SHORT ESSAYS (Answer any Four)**

**4 x 5 = 20 Marks**

3. Transverse myelitis
4. Spinabifida – classification & management
5. Klippel – feil syndrome – clinical features, investigations, management
6. *Syringomyelia*
7. Laminectomy – procedure & indication

### **SHORT ANSWERS**

**5 x 2 = 10 Marks**

8. Burr hole surgery
9. Rhizotomy
10. Myotonic dystrophy
11. *Myasthenia gravis*
12. Wilson disease

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# Rajiv Gandhi University of Health Sciences, Karnataka

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

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

### Essays type (Answer any Two out of three)

**2 x 10 = 20 Marks**

1. Write in detail about physiotherapy management for amyotrophic lateral sclerosis
2. Write a essay on physiotherapy management for sciatic nerve palsy
3. Write physiotherapy management for spinal cord trauma at T-12 level.

### SHORT ESSAYS type (Answer any Twelve out of fourteen)

**12 x 5 = 60 Marks**

4. Explain neuro developmental screening test.
5. Clinical features of Eaton – Lambert syndrome.
6. Physiotherapy management of spinal disc herniation.
7. Assessment on higher functions.
8. Clinical features of thoracic outlet syndrome.
9. Importance and significance of slump test.
10. Physiotherapy Management for hemiplegic shoulder subluxation.
11. Kinetics of gait analysis
12. Write about intercostals nerve lesion and physiotherapy management for the same.
13. Explain about rancho-los amigos scale for head injured patient.
14. Clinical features of Duchene muscular dystrophy
15. Conservative management for acute foot drop
16. Treatment principles and application for constraint induced movement therapy.
17. Explain different types of sensory examination.

### SHORT ANSWERS

**10 x 2 = 20 Marks**

18. *Kernig's sign*
19. Principles in motor relearning programme
20. Complications of hydrocephalus
21. Write four Clinical features of lumbosacral plexus lesion
22. Explain the types of spina bifida
23. Define vojta therapy
24. Explain ulnar paradox
25. Explain pendular reflex
26. Dystonia
27. Cerebro spinal fluid examination in meningitis

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# Rajiv Gandhi University of Health Sciences, Karnataka

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

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. Classify perceptual disorders. Explain ideomotor and ideational Apraxia
2. Discuss the post paralytic rehabilitation of poliomyelitis
3. Classify Motor Neuron Diseases. Discuss the assessment and management of Primary lateral sclerosis
4. A 25 year old male has been admitted to ICU post craniotomy following RTA. Discuss the Physiotherapy management in the ICU
5. A 35 year old lady has been diagnosed as a secondary progressive multiple sclerosis. Outline the long term goals and discuss the physiotherapy management during a acute exacerbation

### SHORT ESSAYS (Answer any Eight)

**8 x 5 = 40 Marks**

6. Describe the principles of rood's approach
7. Define spasticity. Describe any one method of measuring spasticity
8. Outline the management of ulnar claw hand
9. List primitive reflexes and explain any two
10. Neurogenic bladder. Outline the management of automatic bladder
11. Define Upper Motor Neuron Lesion and Lower Motor Neuron Lesion. Give atleast three difference between them
12. Define spasticity and rigidity. Give atleast three difference between them
13. Explain the clinical features of SMA
14. Explain the clinical features of Down's syndrome
15. Explain the principles of Proprioceptive neuromuscular facilitation

### SHORT ANSWERS

**10 x 2 = 20 Marks**

16. What is kerning's sign?
17. Define rigidity and spasticity
18. Explain Slump Test
19. Write the significance of direct and indirect papillary light reflex
20. Explain bell's phenomena
21. Write any two investigations for confirmation of Duchenne's Muscular Dystrophy
22. Describe athetosis
23. Explain the significance of a positive Romberg's test
24. Explain Ulnar Paradox
25. Explain any two uses of Frenkel's exercises

# Rajiv Gandhi University of Health Sciences, Karnataka

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

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 family planning. Describe the various contraceptive methods.
2. Define Epidemiology. What is the use of doing epidemiological studies?
3. Define Infant mortality rate. Mention the various factors responsible for IMR. What measures have been taken to prevent IMR.

### SHORT ESSAYS TYPE (Answer any Eight out of Ten)

**8 x 5 = 40 Marks**

4. Prevention of Hypertension
5. Prevention of HIV/AIDS
6. Water borne diseases
7. ICDS
8. Field level classification of leprosy. Mention the drugs used in the management of leprosy.
9. Sickness absenteeism.
10. Rehabilitation
11. Nutritional problems in public health
12. Approaches to health education
13. Define Biomedical waste. Mention the various treatment and disposal technologies for health care waste

### SHORT ANSWERS

**10 x 2 = 20 Marks**

14. Risk factors for coronary heart disease.
15. Control of Typhoid fever
16. BCG vaccine
17. *Define Incidence and prevalence*
18. Epidemiological triad
19. Mention the various methods of mosquito control measures
20. Mention the various components under RCH programme.
21. Objectives of post natal care
22. Composition of ORS
23. Classification of foods.

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# Rajiv Gandhi University of Health Sciences, Karnataka

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

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 endocarditis. Write the clinical features and physiotherapy management in detail for it
2. Write the etiology, clinical features and physiotherapy management for Type II respiratory failure
3. Types and stages of inflammation. Write the physiotherapy management in detail for inflammation
4. Define pulmonary rehabilitation. Explain the role of physical therapist in pulmonary rehabilitation for a COPD patient
5. Define bronchiectasis. Write the physiotherapy management in detail for the same

### SHORT ESSAYS (Answer any Eight)

**8 x 5 = 40 Marks**

6. Coughing and huffing
7. Diaphragmatic breathing exercise
8. Intermittent positive pressure breathing
9. Pulmonary function test
10. Exercise testing protocols
11. Definition and causes of clubbing. Add a note on its types and grades
12. Auscultation
13. Physiotherapy management in psoriasis
14. Physiotherapy management in varicose vein
15. Differentiate cyanotic and acyanotic heart disorders

### SHORT ANSWERS

**10 x 2 = 20 Marks**

16. Cheyne – Stokes breathing
17. Typical angina pectoris
18. Miliary TB
19. Silhouette's sign
20. Intermittent claudication
21. Grades of dyspnoea
22. Purkinje fibres
23. Four precautions for breathing exercises
24. Paradoxical breathing
25. Four indications to terminate exercise testing

# Rajiv Gandhi University of Health Sciences, Karnataka

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

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. How do you conduct pre –vocational evaluation for a person with disability? Describe the modes of employment available for a paraplegic seeking employment
2. Identify methods used in creating community awareness for disability. How can a physiotherapist contribute to this program?
3. Objectives of vocational evaluation & rehabilitation.

### SHORT ESSAYS (Answer any Eight)

**8 x 5 = 40 Marks**

4. Architectural barriers in public places
5. Importance of parental counseling
6. Cross sectional population surveys
7. List down the district level rehab programs
8. What are the various types of screening for mental retardation?
9. Role of family & medical professionals in the implementation of CBR
10. Role of physiotherapy in Duchene Muscular Dystrophy (DMD)
11. Explain the various types of urinary incontinence
12. Explain the factors supporting CBR program
13. List out clinical features of down syndrome. How can you rehabilitate down syndrome in community set up?

### SHORT ANSWERS

**10 x 2 = 20 Marks**

14. Uses of longitudinal Study
15. Mention community entry strategies
16. Define occupational health
17. Define genetic counseling?
18. PWD act 1995
19. Functions of regional centre
20. Heterogenic Drug reactions
21. Ergonomic measures for computer professional
22. Services of Indian Red cross?
23. Mention the components of lower limb evaluation

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# Rajiv Gandhi University of Health Sciences, Karnataka

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

**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. Physiotherapy management for a patient in intensive care unit on ventilator on SIMV mode
2. Plan out a cardiac rehabilitation protocol for a 55 year old man who has undergone coronary artery bypass graft surgery
3. Explain physiotherapy management of a 40 year old lady who has burns over the right shoulder and anterior chest
4. Draw a diagram showing various incisions for abdominal surgeries and write the physiotherapy management for a patient who has undergone laparotomy
5. Explain the post-operative complications after radical mastectomy and physiotherapy management for the same

### SHORT ESSAYS (Answer any Eight)

**8 x 5 = 40 Marks**

6. Explain the techniques of incentive spirometry
7. Write a note on nebulization
8. Ante – natal exercises
9. Describe postural drainage position of segments of right upper and middle lobe of lung
10. Physiotherapy management of scar tissue
11. Write a note on palliative treatment in cancer
12. Explain different types of skin grafts used in burns
13. Explain the various tendon transfers done in the hand affected with leprosy
14. Write physiotherapy management of lymphoedema
15. *Explain the role of Physiotherapy after pneumonectomy*

### SHORT ANSWERS

**10 x 2 = 20 Marks**

16. Types of uterus prolapse
17. CPAP mode on ventilator
18. 4 uses of breathing exercise
19. What is thoracoplasty
20. Brochopulmonary fistula
21. Define stress incontinence
22. Grades of dysnoea
23. Rule of 9 in burns
24. Name the grafts used in coronary artery bypass graft surgery
25. Homan's sign

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# Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination - Aug 2013

**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 in detail about Role of Voluntary organization in CBR.
2. Write about Disability evaluation and uses of evaluation finding.
3. Describe ergonomics write Occupational hazard secondary to Chemical agents & your role in prevention of hazard.

### **SHORT ESSAYS (Answer any Twelve)**

**12 x 5 = 60 Marks**

4. Write ergonomic advise to a patient who is having low back pain.
5. Write the changes in Neuromotor system in Geriatrics.
6. Vocational training – need & evaluation.
7. Rehabilitation of spastic diplegic cerebral palsy child.
8. Role of Physiotherapy in Dementia.
9. Legal aspects of rehabilitation.
10. Maternal nutrition and education.
11. Architectural barriers for disabled.
12. Differentiate between impairment and handicap with example.
13. Importance of community participation and awareness in rehabilitation.
14. Write about community initiated versus community oriented programme.
15. Explain low cost assistive aids.
16. Explain mechanical hazards-over use & fatigue.
17. Explain about District Rehabilitation center.

### **SHORT ANSWERS**

**10 x 2 = 20 Marks**

18. Define Disability.
19. Define Geriatrics.
20. Name polio viruses.
21. Gower's sign.
22. Types of Tremor.
23. Define Ethics.
24. Functions of WHO.
25. Define Rehabilitation.
26. Camp approach.
27. Define policy.

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# Rajiv Gandhi University of Health Sciences, Karnataka

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

**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. Explain signs, symptoms & complications of fracture
2. Write in detail assessment of pre & post prosthesis fitting
3. Write in detail physiotherapy management for fracture neck of femur
4. Write in detail about scoliosis and its post surgical rehabilitation
5. Write in detail about maitland mobilization

### SHORT ESSAYS (Answer any Eight)

**8 x 5 = 40 Marks**

6. Explain osteotomy
7. Explain TB spine
8. Explain fracture scapula
9. Explain fracture meta tarsal
10. Explain spondylolisthesis
11. Explain CTEV
12. Explain kyphosis
13. Explain ankylosing spondylitis
14. Explain tendon graft
15. Explain the levels of amputation

### SHORT ANSWERS

**10 x 2 = 20 Marks**

16. Four causes for VIC
17. Principles of mckenzie technique
18. Two special tests for rotator cuff injury
19. Special test for ACL injury
20. Types of lower limb orthotics
21. Symptoms for soft tissue injury
22. Four causes for hand injury
23. Foot orthotics
24. Symptoms, causes for perthes disease
25. *Physiotherapy modality for Peri arthritic shoulder*

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

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. What is Eustress? Write in detail the various stress management strategies employed by the athletes
2. Write in detail about the immediate and long term effects of exercise on various systems of the body
3. Write in detail the pharmacological remedies in sports. Mention its advantages and disadvantages

### SHORT ESSAYS (Answer any Eight)

**8 x 5 = 40 Marks**

4. Explain the importance of warm – up and cool – down phases in exercise training
5. Define delayed Onset Muscle Soreness (DOMS). Outline the physiology of DOMS and list the methods of preventing it
6. Training in high altitude
7. How will you manage a footballer who has sustained a quadriceps contusion injury
8. Explain the mechanism of lateral ankle injury and its management with emphasis on proprioceptive training
9. Explain the methods of progressive resisted exercise
10. Explain briefly importance of pre – participation evaluation
11. Explain the various intrinsic and extrinsic factors causing sports injuries
12. Write about causes of fatigue. Management of fatigue from physiotherapists perspective
13. Therapeutic effects of acupuncture

### SHORT ANSWERS

**10 x 2 = 20 Marks**

14. Define oxygen debt and deficit
15. What is Qi (chi)
16. Define Basal Metabolic Rate
17. Define plyometrics
18. Mention submaximal tests
19. Vajrasana
20. Mention the three energy systems in our body and the duration for which they provide energy during exercise
21. Basic food pyramid – only diagram with label
22. Use of topical ointments in sports
23. Define periodization