

# Rajiv Gandhi University of Health Sciences, Karnataka

## IV Year B.P.T. Degree Examination - 16-May-2023

**Time: Three Hours**

**Max. Marks: 40 Marks**

### **NEUROLOGY (RS3 & RS4)** **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 in details about multiple sclerosis pathophysiology, clinical symptoms and medical management.
2. Write in detail about cranial nerve examinations.

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

**3 x 5 = 15 Marks**

3. Thoracic outlet syndrome.
4. Transient Ischaemic Attack.
5. Ataxia.
6. Cerebral palsy.

#### **SHORT ANSWERS**

**5 x 3 = 15 Marks**

7. Hydrocephalus.
8. Vertigo.
9. Klippel-Feil syndrome.
10. Classification of epilepsy.
11. Define autism.

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# Rajiv Gandhi University of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination - 16-May-2023**

**Time: 3 Hours**

**Max. Marks: 40 Marks**

## **NEUROSURGERY - (RS3 & RS4)**

**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 Head injury – classification, clinical features. Add a note on management of extradural haemetoma.
2. Explain clinical features, investigations and management of Lumbar Inter Vertebral Disc Prolapse (IVDP).

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

**3 x 5 = 15 Marks**

3. Indication and complication of burr hole procedure
4. Define Meningocele and management
5. What is Arnold Chiari malformation and its management?
6. Write about management of Neurogenic pain.

### **SHORT ANSWERS**

**5 x 3 = 15 Marks**

7. Meralgia paraesthetica
8. Ramsay hunt syndrome
9. Lacunar stroke
10. What is Erb's palsy?
11. Define Syringomyelia.

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# Rajiv Gandhi University of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination –16-May-2023**

**Time: 3 Hours**

**Max. Marks: 80 Marks**

## **NEUROLOGY AND NEUROSURGERY (RS-5)**

**Q.P. CODE: 2747**

Your answers should be specific to the questions asked.

Draw neat, labelled diagrams wherever necessary.

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

**1 x 10 = 10 Marks**

1. Define stroke. Write about its classification and causes with its medical management.
2. Define Hydrocephalus. Write about its causes, clinical features and its surgical management.

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

**8 x 5 = 40 Marks**

3. Perceptual disorders.
4. Higher Mental Functions.
5. Transverse Myelitis and its clinical features.
6. Dysphagia and its management.
7. Deep Brain Stimulation.
8. Stereotactic surgery.
9. Tendon Transfers.
10. COMA.
11. Alcoholic toxicity.
12. Surgical management of Aneurysm.

### **SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. Tetanus.
14. Athetosis.
15. Trigeminal Neuralgia.
16. Dystonia.
17. Importance of Nerve conduction studies.
18. EMG
19. Thoracic outlet syndrome.
20. Epilepsy.
21. Lumbar puncture.
22. Endarterectomy.

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – 20-May-2023

Time: Three Hours

Max. Marks: 80 Marks

## COMMUNITY MEDICINE - (RS3 & RS4)

**Q.P. CODE: 2721**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

### ESSAYS TYPE (Answer any One)

**1 x 10 = 10 Marks**

1. Explain the concepts of levels of prevention and modes of intervention with suitable examples
2. Define disaster. Explain the phases of disaster cycle in detail and explain 'NDRMA'.

### SHORT ESSAYS TYPE (Answer any Eight)

**8 x 5 = 40 Marks**

3. Disease cycle.
4. Explain the steps of case control study
5. Post exposure prophylaxis for Rabies
6. Epidemiological determinants and clinical manifestations of HIV-AIDS
7. Hazards of obesity and its prevention
8. Explain the factors influencing fertility
9. Integrated Child Development Services (ICDS)
10. Epidemiology and prevention of nutritional anaemia
11. Write in detail about the colour coding and disposal of biomedical waste
12. Models of health education



### SHORT ANSWERS

**10 x 3 = 30 Marks**

13. Pandemic disease
14. Relative risk
15. Treatment of multi-bacillary leprosy
16. Warning signs of cancer
17. Principles of primary health care
18. Contraindications for use of intrauterine contraceptive devices
19. Mid-day meal programme
20. Sources of air pollution
21. Periodic examination
22. Enumerate sic dependence producing drugs

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# Rajiv Gandhi University of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination – 18-May-2023**

**Time: Three Hours**

**Max. Marks: 80 Marks**

## **COMMUNITY MEDICINE (RS5)**

**Q.P. CODE: 2748**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

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

**1 x 10 = 10 Marks**

1. Define health. What are the various determinants of health?
2. Define epidemiology. Mention the principles and uses of epidemiology.

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

**8 x 5 = 40 Marks**

3. Community nutrition programme.
4. Concept of lead time.
5. MMR vaccination.
6. Epidemic.
7. UNICEF.
8. Disease caused by Arthropod vectors.
9. Screening of cancer.
10. Causes of blindness in India.
11. Indirect modes of transmission.
12. Uses of growth chart.



### **SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. PQLI (Physical quality of life index).
14. Child abuse.
15. Droplet infection.
16. Man – made disaster.
17. Crude death rate.
18. List the types of carrier in health causation.
19. Silicosis.
20. Active and passive immunization.
21. Write difference between incubation period and latent period.
22. List the substances of abuse.

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – 18-May-2023

Time: Three Hours

Max. Marks: 100 Marks

## NEURO PHYSIOTHERAPY (RS3 & RS4)

**Q.P. CODE: 2720**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

### LONG ESSAYS (Second Question choice)

**2 x 10 = 20 Marks**

1. Explain the causes for common peroneal nerve palsy? Write physiotherapy management of a foot drop case.
2. Discuss the role of physiotherapy in spinal muscular atrophy (SMA). Enumerate the types of SMA.

**OR**

What are the causes of stroke? Write the management of a hemiplegic case in the spastic stage.

### SHORT ESSAYS (Question No.3 & 12 choice)

**10 x 5 = 50 Marks**

3. Describe developmental milestones.

**OR**

Explain about hyperkinetic and Hypokinetic gait.

4. Explain importance of early identification of high risk babies.
5. Types of brain tumors and features.
6. Physiotherapy management for multiple Sclerosis.
7. Describe Barthel index.
8. Physiotherapy management for Erb's palsy.
9. Explain any three Neuropathological Gait.
10. Describe the principles and techniques in Rood's approach.
11. Write physiotherapy management in the intensive care unit for a patient with Guillain Barre Syndrome.
12. How will you evaluate the level of consciousness in a case of head injury.

**OR**

Write the assessment for Decubitus Ulcer.

### SHORT ANSWERS

**10 x 3 = 30 Marks**

13. Tarsal tunnel syndrome.
14. Uses of Electromyography Biofeedback.
15. Glabellar tap test.
16. Clinical features of Down's Syndrome.
17. Differentiate between decerebrate rigidity and decorticate rigidity.
18. Palmar and Plantar grasp reflex.
19. Axillary nerve paralysis.
20. Tonic neck reflexes.
21. Ranchos Los Amigos scale.
22. Define Apraxia and its types.

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# Rajiv Gandhi University of Health Sciences, Karnataka

## IV Year B.P.T. Degree Examination - 20-May-2023

**Time: Three Hours**

**Max. Marks: 100 Marks**

### **NEURO PHYSIOTHERAPY (RS5)**

**Q.P. CODE: 2749**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

#### **LONG ESSAYS (Second Question Choice)**

**2 x 10 = 20 Marks**

1. Define Multiple sclerosis and discuss the classification of subtypes based on the clinical progression of the disease. Explain the management of spasticity in multiple sclerosis.
2. Discuss the typical clinical presentation of Duchenne Muscular Dystrophy (DMD) and explain Physiotherapy management of a 12-year-old child with DMD.

**OR**

Explain the principles of Brunnstrom's approach. Explain basic limb synergies and sequential stages of recovery as per Brunnstrom.

#### **SHORT ESSAYS (Question No 3 & 12 choice)**

**10 x 5 = 50 Marks**

3. Classify spina bifida and describe the clinical presentation of various types.

**OR**

Explain Post-polio syndrome under clinical presentation and physiotherapy management.

4. Define and classify stroke. Explain the presentation of Lateral Medullary syndrome.
5. Describe Asymmetrical Tonic Neck Reflex (ATNR) and explain the spatial, temporal and physical parameters observed in ATNR.
6. Describe hemiplegic shoulder pain and its physiotherapy management.
7. Define hydrocephalus. Briefly explain the signs/symptoms and management.
8. List the typical clinical features of Parkinson's disease. Add a note on Festinating gait.
9. Write about Neurogenic bladder.
10. Discuss in brief any five facilitatory techniques of Roods approach.
11. Explain the clinical presentation of Meningitis and add a note on management.
12. Discuss the components and grading of American Spinal cord Injury Association Scale and its use in spinal cord injury (ASIA).

**OR**

Enumerate the Trigeminal nerve functions and discuss its evaluation.

#### **SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. Charcot's triad in Multiple sclerosis
14. APGAR score
15. What is Wernicke's aphasia?
16. What is Agnosia?
17. Mention clinical features of Arnold Chiari Malformation.
18. Two signs of raised Intra Cranial pressure (ICP)
19. What is Claw hand?
20. Trigeminal neuralgia – clinical features.
21. Define Spasticity.
22. What is Bell's phenomenon?

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – 22-May-2023

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 (Second Question choice)

**2 x 10 = 20 Marks**

1. Discuss industrial Hazards and various agents causing industrial accidents /hazards.
2. Define Disability. Discuss the causes and types of disability. Enumerate the measures to prevent disability.

**OR**

What is a self-Help group? What are the functions of a self-help group?

### SHORT ESSAYS (Question No.3 & 12 choice)

**10 x 5 = 50 Marks**

3. Advantages and disadvantages of CBR

**OR**

Write about Architectural barriers faced by a paraplegic

4. Describe Role of family members in the rehabilitation of physically handicapped
5. Explain about community participation and sustainability of a CBR program
6. Write about Work related mechanical hazards in vehicle drivers
7. Define social work? Explain the role of social worker in a CBR program
8. Write about maternal nutrition and education
9. Discuss about early intervention in high risk babies
10. What are the central government schemes for disabled
11. Design CBR program for disabled
12. List and mention the role of Members of CBR team

**OR**

Assistive aids with low cost for community

### SHORT ANSWERS

**10 x 3 = 30 Marks**

13. Define Handicap
14. Define CBR
15. Rockefeller foundation – write a short note on its CBR activities.
16. Mention the role of Non – governmental organizations in CBR.
17. Role of physiotherapist in industrial setup
18. Mobile rehabilitation units
19. Role of placement officer
20. Role of Ergonomics in preventing occupational hazards
21. Home for aged
22. Vibration hazards in industrial area



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# Rajiv Gandhi University of Health Sciences, Karnataka

**IV Year BPT Degree Examination – 22-May-2023**

**Time: Three Hours**

**Max. Marks: 100 Marks**

## **Community Physiotherapy – (RS-5)**

**Q.P. CODE: 2750**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

### **LONG ESSAYS (Second Question choice)**

**2 x 10 = 20 Marks**

1. Define Multi sectoral approach in CBR. Enumerate the role of each sector/ group of people in the development and implementation of CBR programme.
2. Explain in detail about Community based approach and community entry strategies.

**Or**

Explain in detail about screening and rehabilitation for 2 years old child suffering with Downs's syndrome.

### **SHORT ESSAYS (Question No.3 & 12 choice)**

**10 x 5 = 50 Marks**

3. Write in detail about Stress management.

**Or**

What is Camp approach? Write its various advantages and disadvantages.

4. Explain the role of Primary Health center.
5. Write in detail about Immunization schedule from a new born till the age of 9 years.
6. Write in detail about various biological hazards and its uses.
7. Write in detail about various roles of charitable organizations.
8. Role of PT in Incontinence for 70 year old person suffering with Alzheimer's disease.
9. Write about the components of health in CBR matrix.
10. Write in detail about Decentralization.
11. Explain about IBR versus CBR.
12. Explain various level of prevention of disabilities and its types.

**Or**

Write in detail about Iatrogenic drug reactions.

### **SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. What is the role of Rockfeller foundation?
14. Role of PT in Half-way homes.
15. Functions of mobile units.
16. Basic principles of CBR.
17. FAO
18. Types of rehabilitation.
19. Define social work.
20. Drawbacks of CBR.
21. ICDS
22. What is sample survey?

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# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - 24-May-2023

**Time: Three Hours**

**Max. Marks: 80**

## **RESEARCH METHODOLOGY AND BIOSTATISTICS (RS-5)**

**Q.P. CODE: 2751**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

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

**1 x 10 = 10 Marks**

1. Explain various methods of data collection
2. Define research design. Explain various methods of research design

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

**8 x 5 = 40 Marks**

3. Problems encountered by researchers in India
4. Explain various methods of sampling
5. Testing of hypothesis
6. Steps involved in problem statement
7. Tabulation of data
8. Central tendency
9. Normal distribution curve
10. Principles of ANOVA
11. Errors in sampling designs
12. Variables



### **SHORT ANSWERS**

**10 x 3 = 30 Marks**

13. Types of editing
14. Pie chart
15. Schedule method
16. Kurtosis
17. Probability
18. Types of scaling
19. Two tailed test
20. Descriptive research and analytical research
21. Sampling frame
22. Extraneous variable

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