# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination 19-May-2025**

**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, labeled diagrams wherever necessary.

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

1. Define Poliomyelitis. Write about its etiopathogenesis, clinical features and management.
2. Write about types of spinal cord injury and its clinical features. Write about surgical management for the same.

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

3. Write a note on Amyotrophic Lateral Sclerosis and its clinical features.
4. Pathophysiology of Multiple Sclerosis.
5. Write about Botulism, its etiology and signs and symptoms.
6. Define Gullian Barre Syndrome, Write about its causes and clinical features.
7. Neuropraxia and its management.
8. Arnold Chiari malformation.
9. Indications of Craniotomy.
10. Transvers Myelitis.
11. Coma Stimulation.
12. Hydrocephalus and its management.

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Define Tetanus.
14. Clinical features of Bulbar palsy.
15. Importance of Electromyography.
16. Pupillary reflex and its importance.
17. Lacunar infarct clinical features
18. Thoracic outlet Syndrome.
19. Ablative surgery.
20. Muscle biopsy.
21. Indications of tendon transfers.
22. Burr Hole surgery.

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination – 21-May-2025**

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

## COMMUNITY MEDICINE (RS-5)
## 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 geriatrics. What are the health problems of the aged and add a note on preventive measures
2. Define epidemiology. Classify epidemiological studies and describe cross sectional study with example

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

3. Hospital acquired infections
4. School health programme
5. Dimensions of health
6. Uses and side effects of oral contraceptive pills
7. Mpox
8. Seminar and symposium
9. Risk factors and preventive measures of domestic accidents
10. Food fortification
11. Functions of primary health centre
12. Risk factors and preventive measures of diabetes

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Disaster mitigation
14. Barriers of communication
15. Pearl index
16. Name six vector borne diseases
17. Types of rehabilitation
18. Epidemiological triad
19. Pulse polio programme
20. Food pyramid
21. Characteristics of mentally sound person
22. Health effects of air pollution

*****

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination - 23-May-2025**

**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. 1.Discuss the Physiotherapy assessment and management of a 72 year old male patient with Parkinson's Disease.
   2.
2. 3.Explain the classification, clinical features and PT management of 50 year old female with Amyotropic Lateral Sclerosis.
   **4. Or**
   **5.**Discuss the classification, clinical features and PT management of a 20 year old female with Multiple Sclerosis.

**SHORT ESSAYS (Question No.3 & 12 choice)** **10 x 5 = 50 Marks**

3. 6.Draw Brachial Plexus and explain the classification of Brachial Plexus Injury.
   **7. Or**
   **8.**Explain the types of Neurogenic Bladder in detail.
   **9.**
4. 10.Mention the classification of Head Injury using an appropriate neurological assessment tool.
5. 11.Discuss the Physiotherapy management of 13 year old girl with Guillain-Barre Syndrome in the ICU.
6. 12.Mention the clinical features and Physiotherapy management of a 2 year old boy with
   Hydrocephalus.
7. 13.Define Developmental Screening and explain the role of developmental screening in paediatric physiotherapy.
8. 14.Discuss the physiotherapy management of Pudendal Nerve Palsy.
9. 15.Discuss the PT management of a 50 year old man with Myesthenia Gravis.
10. 16.Explain the assessment of Cranial nerves III, IV and VI.
11. 17.Explain Vojta's approach in detail.
12. 18.Define Tremors and explain the various types of tremors.
    **19. Or**
    **20.**Discuss the PT management of Ataxic Gait.

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. 21.Define Dysmetria.
14. 22.Diffuse Axonal Injury.
15. 23.Nystagmus.
16. 24.Common contractures seen in Poliomyelitis.
17. 25.Sacral sparing.
18. 26.Hemianopia.
19. 27.Deformities seen in Median Nerve Palsy.
20. 28.Kernig's sign.
21. 29.Hyperkinetic and Hypokinetic Gait.
22. **30.Enlist the surgeries for Cerebral Aneurysm**

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year BPT Degree Examination – 26-May-2025**

**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. Write in detail about screening and rehabilitation for 2 year old child suffering from cerebral palsy.
2. Role of physiotherapy in CBR.
   **Or**
   Disability evaluation for upper and lower limb.

**SHORT ESSAYS (Question No.3 & 12 choice)** **10 x 5 = 50 Marks**

3. CBR matrix.
   **Or**
   Early intervention in high risk babies.
4. Main streaming of disability.
5. Difference between IBR and CBR.
6. Geriatric rehabilitation.
7. Methods of social work.
8. What is working hardening and work conditioning?
9. Explain about health care system in India.
10. Role of family member in rehabilitation.
11. Role of anganwadi worker.
12. Write in detail about the different approaches for the delivery of rehabilitation.
    **Or**
    Strategies to improve ADL.

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Models of CBR.
14. Meals on wheels.
15. PWD Act.
16. Role of ASHA worker.
17. Drawbacks of CBR.
18. Handicap and Impairment.
19. Biological hazards.
20. Developmental screening.
21. Role of Rockfellar foundation.
22. Types of Incontinence.

*****

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination - 28-May-2025**

**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. Describe the different types of sample design
2. Discuss about probability and standard distributions

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

3. How schedules differ from questionnaires?
4. Explain exploratory research studies
5. Points to be observed by a researcher while selecting a research problem
6. What are the objectives of research?
7. Limitations of tests of hypothesis
8. **Explain about drawing pie diagram with illustration**
9. Application of sampling in community
10. **Explain the problems in processingof data**
11. Guidelines for the use of various measures of central tendency
12. How to select an appropriate method for data collection?

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. What is principle of replication?
14. What is interview method?
15. What are Branches of statistics?
16. Unpaired t-test
17. Cumulative scales
18. Simulation research
19. Time series
20. Control group
21. Significance level
22. **Null& alternate hypothesis**

*****

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination – 10-Nov-2025**

**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. Describe the etiology and classification of cerebral palsy. Outline the clinical features and management of 2 year old child with spastic Diplegia.

2. Define and draw a neat labelled diagram of the neuromuscular junction. Discuss in detail about the causes, clinical features, investigations and treatment of Myasthenia Gravis.
   **OR**
   Discuss Gullian Barre Syndrome, its clinical course and management.

**SHORT ESSAYS (Question No.3 & 12 choice)** **10 x 5 = 50 Marks**

3. Explain Bell's palsy.
   **OR**
   Explain the rehabilitation of wrist flexors from grade 0-5
4. Trigeminal neuralgia.
5. Describe Seddons classification of nerve injury.
6. Describe briefly types of brain tumors and features.
7. Physiotherapy management for Duchenne's Muscular Dystrophy.
8. Importance of neurodevelopmental screening and assessment in babies.
9. Role of physiotherapy in urinary incontinence.
10. Explain any three Neuropathological gait.
11. Entrapment neuropathy.
12. Evaluation of coordination.
    **OR**
    Sensory ataxia and prescribe exercises for the same.

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Gower's sign.
14. Evaluation of vi and vii cranial nerves.
15. Kernig's sign.
16. Clinical features of Down's syndrome.
17. Differential between decerbrate rigidity and decorticate rigidity.
18. Grades of modified Ashworth scale.
19. Axillary nerve paralysis.
20. Tonic neck reflexes.
21. Baldder in case of spinal shock.
22. Horner's syndrome.

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination – 12-Nov-2025**

**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 in detail the strategies under (IVBDCP) for prevention and control of malaria in India
2. Define Maternal Mortality. What is the current MMR in India? What are the various measures undertaken to reduce the same in India

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

3. Explain the iceberg phenomena of disease with an example
4. Classify the epidemiological study designs. Add a note on blinding
5. Explain the modes of transmission and prevention of Hepatitis B
6. Integrated Counselling and Testing Centre (ICTC)
7. Epidemiology and prevention of rheumatic heart disease
8. Antenatal and postnatal care
9. Differentiate between nutritional surveillance and growth monitoring
10. Enumerate the principles of chlorination of water
11. Classify occupational diseases with examples
12. Write briefly on adverse health effects of smoking

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Human Development Index
14. Bias in studies
15. Covid-19 Vaccine
16. Congenital rubella syndrome
17. Anti-tubercular drugs
18. Types of risk factors
19. Eligible couple
20. Disposal of waste sharps in biomedical waste management
21. Man-made disasters
22. Mass media in health education

*****

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination –10-Nov-2025**

**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, labeled diagrams wherever necessary.

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

1. Write in detail about the types of Spinal Cord Injuries and add a note on the complications of Spinal Cord Injuries
2. Write about hydrocephalus, its types, clinical features and its management

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

3. Types of spinal tumors
4. Classification of multiple sclerosis
5. Brachial plexus injury
6. Syringomyelia
7. Write about the clinical features of vestibular dysfunction
8. Arnold chiari malformations
9. Difference between UMN and LMN lesion
10. Write about the pathophysiology of Amyotrophic lateral sclerosis
11. Laminectomy
12. Higher mental functions

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Foot drop
14. Clinical features of down's syndrome
15. Coma
16. Brucellosis
17. **Rinne's test**
18. What is spinal shock
19. Coiling of aneurysm
20. **Gowers sign**
21. Epilepsy
22. Global aphasia

*****

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination – 12-Nov-2025**

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

## 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. Classification of epidemiological methods. Describe the steps in Cohort study

   Or

   **Classification of epidemiological STUDY DESIGN. Describe the steps in Cohort study**
2. List mosquito borne diseases. Describe the epidemiology, prevention and control of dengue fever

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

3. Define health. Explain the indicators of health
4. Levels of prevention and modes of intervention
5. National immunization schedule. Write the side effects of immunization
6. Types of screening test. Write the uses of screening tests
7. List the risk factors of hypertension. Write a note in prevention of hypertension
8. Classification of family planning methods. Explain the intra uterine devices (IUDs)
9. National tuberculosis elimination program (NTEP)
10. What is postnatal care? Explain the objectives of postnatal care
11. Classify disasters. Explain disaster cycle
12. Risk factors of mental health problems. Prevention of mental health problems

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Prevention of iron deficiency anemia
14. Epidemiological triad
15. Effects of noise pollution on health
16. Occupational diseases
17. Management of acute diarrheal disease
18. Hospital waste management
19. Risk factors for road traffic accidents
20. Importance of communication in health care
21. Approaches to health education
22. Health problems in old age people

*****

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year BPT Degree Examination – 14-Nov-2025**

**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. Define CBR. Write any ten differences between CBR and IBR
2. Define Disability. Add a note on types and prevention of disabilities
   **OR**
   Define Community. Explain community initiated versus community oriented programme

**SHORT ESSAYS (Question No.3 & 12 choice)** **10 x 5 = 50 Marks**

3. Explain various strategies to improve ADL
   **OR**
   Discuss about genetic counselling
4. Explain the need of vocational training and rehabilitation
5. Role of PT in advising low cost assistive aids
6. Discuss ICF
7. Define Ergonomics. How to set up a ideal chair for computer worker?
8. Prepare a brief education programmed for lactating mothers
9. Advantages and disadvantages of CBR programmes
10. Role of district rehabilitation centres
11. Management of dementia patient in community setup
12. Models of CBR
    **OR**
    Outreach programmes in CBR

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Parts of wheel chair
14. PHC
15. Role of placement officer
16. Four hurdles in CBR
17. UNICEF
18. Uses of mobile units
19. Scope of CBR
20. Define social work and mention any two importance
21. Meals on wheels
22. What is Cohort study?

*****

# RajivGandhiUniversity of Health Sciences, Karnataka

## IV Year B.P.T. Degree Examination - 14-Nov-2025

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

## NEURO PHYSIOTHERAPY (RS-5)
## 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 Guillian Barrie syndrome. Explain in detail about physiotherapy assessment and management of Guillian Barrie syndrome at Recovery state
2. Discuss in detail about the physiotherapy assessment and management of Erb's palsy in Brachial plexus injury

   **OR**

   Explain in detail about the P.T assessment and management of 25 years ole male with D10 complete spinal cord injury

**SHORT ESSAYS (Question No 3 & 12 choice)** **10 x 5 = 50 Marks**

3. Explain the clinical features assessment and management of poliomyelitis

   **OR**

   Primitive reflexes
4. Enumerate ambulatory aids in neurological rehabilitation
5. Elaborate the assessment and PT management of spasticity
6. Features, causes and PT management of high stepping gait
7. Elaborate the P.T. management in acute stage of head injury
8. Discuss the techniques and patterns of Proprioceptive Neuro Muscular Facilitation (P.N.F)
9. Explain the techniques of balance training in hemiplegia
10. Describe unilateral neglect and explain the physiotherapy interventions to manage spasticity in hemiplegia
11. Enumerate types of neurogenic bladder dysfunction and its management
12. Discuss the home exercise program for Parkinson's disease

    **OR**

    Explain Autonomic Dysreflexia

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Explain Moro reflex
14. What is Bradykinesia?
15. Causes of Syringomyelia
16. Write about immobilization and its complications
17. Define reflex sympathetic dystrophy
18. **Explain briefly about ADL – Activities of daily living**
19. Write down the signs of $7^{th}$ cranial nerve palsy
20. What is Lhermitte's sign?
21. Name five pathological gaits
22. Define biofeedback

# RajivGandhiUniversity of Health Sciences, Karnataka

## IV Year B.P.T. Degree Examination - 17-Nov-2025

**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 detail about etiology, classification, clinical features and management of Epilepsy.
2. Explain various types of neuromuscular disorder. Write in detail about Myasthenia gravis.

**SHORT ESSAYS (Answer any Three)** **3 x 5 = 15 Marks**

3. Wilson's disease.
4. Athetosis.
5. Down syndrome.
6. Eaton Lambert syndrome.

**SHORT ANSWERS** **5 x 3 = 15 Marks**

7. Syncope.
8. Migraine.
9. Rheumatic fever.
10. Broca's aphasia.
11. Causes of coma.

*****

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination - 17-Nov-2025**

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

## NEUROSURGERY - (RS-3 & RS-4)
## 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. Spinal tumors: causes, clinical features, investigations and management
2. Define Haemorrhagic stroke. Explain types, clinical features and its surgical management

**SHORT ESSAYS (Answer any Three)** **3 x 5 = 15 Marks**

3. Rhizotomy
4. Surgical management of Median Nerve Palsy
5. Brown Sequard Syndrome and management
6. Deep brain stimulation

**SHORT ANSWERS** **5 x 3 = 15 Marks**

7. Brain abscess
8. Common peroneal nerve palsy
9. Weber’s test and Rinne’s test
10. Cranioplasty
11. Nerve biopsy

*****

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year BPT Degree Examination – 17-Nov-2025**

**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. What are the different levels of prevention of disease? What are the modes of intervention at each levels of prevention for preventing mental retardation in children?
2. Define CBR. Explain in detail about different types of agencies and their roles in Indian Community.

   **Or**

   What is disability evaluation? What are the uses of disability evaluation? Differentiate disability and impairment.

**SHORT ESSAYS (Question No.3 & 12 choice)** **10 x 5 = 50 Marks**

3. Role of family members in the rehabilitation of physically handicapped.

   **Or**

   Cross sectional population survey.
4. Role of social worker in CBR.
5. **Occupational hazards for a driver.**
6. Write a note on ICF
7. Write in detail about post natal phase rehabilitation of woman.
8. What is vocational training? What is the need of vocational training?
9. Architectural barriers in public places.
10. What is the importance of genetic counseling?
11. Advantages and disadvantages of CBR.
12. Immunization programs.

    **Or**

    Functions of district disability rehabilitation centers.

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Types of Rehabilitations.
14. Anganwadi workers.
15. UNICEF.
16. What is PWD act?
17. Day care centers.
18. Half way homes.
19. Anxiety of work.
20. What is Ankle foot orthosis?
21. What is tertiary prevention?
22. Deformities presents in cerebral palsy children.

# RajivGandhiUniversity of Health Sciences, Karnataka

**IV Year B.P.T. Degree Examination - 19-Nov-2025**

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

## RESEARCH METHODOLOGY AND BIOSTATISTICS (RS5)

## 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. Define sample and population. Explain any two random sampling techniques in detail.
2. **The abduction range of motion of a sample of subjects with Subacromial impingement syndrome revealed the following data.**

| Range of motion | 90-100 | 100-110 | 110-120 | 120-130 | 130-140 | 140-150 | 150-160 |
|---|---|---|---|---|---|---|---|
| Number of subjects | 4 | 6 | 10 | 16 | 12 | 8 | 4 |

**Calculate mean, median and mode.**

**OR**

**Define ANOVA; Explain the procedure to carry out ANOVA**

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

3. Explain the objectives of research.
4. Discuss the features of good research design.
5. Explain about important scaling techniques with suitable example.
6. Differentiate the questionnaire and schedule method of data collection.
7. Explain about procedure of hypothesis testing.
8. Explain the important types of research.
9. Guidelines for the various measures of central tendency.
10. Discuss about student t-distribution and its application.
11. Give brief account of variable and levels of measurement.
12. Role of computers in physiotherapy practice.

**SHORT ANSWERS** **10 x 3 = 30 Marks**

13. Parameter and estimate.
14. Histogram.
15. Cross sectional study.
16. Cluster sampling.
17. Level of significance and power of the test.
18. Hypothesis.
19. Statement of research problem.
20. Kurtosis.
21. Independent and dependent events.
22. Measures of dispersion.

*****