Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – April 2018

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 Syringomyelia. Write about clinical features, assessment and management of Syringomyelia at T3-T8 level in 21 year old male since 1 year.
2. What are the clinical features of motor neuron disease? Write about assessment and management of 30 year old female with motor neuron disease since 2 years.
3. Define Gullian Barre syndrome. Write about assessment and PT management of 42 year old male with GBS since 3 years.

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

4. Physiotherapy management of Scissoring gait
5. Physiotherapy management of common peroneal nerve palsy with duration of 1 month
6. Write about effects and uses of sensory integration approach.
7. Principles and uses of proprioceptive neuromuscular facilitation
8. Write about ASIA scale.
9. Write about gait assessment in Parkinson's disease.
10. Write a note on developmental milestones.
11. Write about mini mental state examination and its uses.
12. Mention the uses of orthotic devices in radial nerve palsy.
13. Pre-operative PT intervention in management of spinal tumor at S-I level
14. Physiotherapy management for sensory dysfunction
15. Physiotherapy management for Post-operative hydrocephalus patient
16. Write about effects and uses of Swiss ball in neurological rehabilitation.
17. Post-operative PT management for spina bifida with myelo-meningocele

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

18. Testing of 8^{th} cranial nerve
19. 4 uses of positioning
20. Hold relax technique
21. Dysmetria
22. Effect of cryotherapy
23. Hand to knee gait
24. Signs of increased intra cranial pressure
25. Clinical features of axillary nerve injury
26. SD curve
27. Involuntary movements

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – APRIL-2018

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) **2 x 10 = 20 Marks**

1. Mention the cardinal features of leprosy. Mention the different modes of transmission. Describe the WHO classification of leprosy. Add a note on rehabilitation in Leprosy control.
2. Explain the steps and the differences between a case control and a cohort study with an example each.
3. Mention the risk factors for diabetes mellitus and discuss the preventive and control measures.

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

4. Define natural history of disease. Mention the different types of agent factors.
5. Polio vaccine
6. Control of Diarrhoral disease
7. Danger signs of Cancer
8. Epidemiological factors for obesity
9. Beneficiaries and services under ICDS
10. DOTS in TB control
11. Health hazards of health care waste
12. Benefits of employees state insurance act
13. Disability rates

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

14. Signs and symptoms of Vitamin A deficiency
15. Mention any four arthropod – borne disease
16. Mention types of purification of water on small scale
17. Two contraindications for IUDS
18. Components of RCH programme
19. Sensitivity and specificity
20. Define epidemic
21. Active surveillance
22. Disaster cycle
23. Define primary health care

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – APRIL-2018

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. Explain CBR and community development.
2. Explain role of physiotherapy in CBR. How do you prescribe exercise programme for a cerebral palsy child at home?
3. Define screening. Write detail about detection of high risk babies.

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

4. Describe role of voluntary organization in CBR.
5. Scope of CBR
6. Classify occupational hazards. Explain any one in detail.
7. Immunization programme
8. Role of social worker in CBR
9. Extension services and mobile units and its uses and disadvantages
10. What are the barriers to community participation in CBR programmes?
11. Discuss community entry strategies.
12. Legal aspect of rehabilitation
13. Explain fabrication of low cost assistive device for locomotion.
14. Mention any four models of disability. Explain ICIDH.
15. Brief out the role of family member in CBR.
16. Explain role of Anganawadi worker.
17 PHC

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

18. Role of half way homes
19. PWD act 1995
20. Functions of reginal center
21. Define impairment.
22. Define incontinence.
23. Camp approach
24. Name the latrogenic drugs
25. ILO
26. Biological hazards
27. Functions of Red Cross

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - APRIL-2018

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 stroke. Explain etiology, types of stroke. Add management of hemorrhagic stroke.
2. Define chronic inflammatory demylinating neuropathy. Explain pathophysiology and management for the same.

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

3. Explain clinical features of transverse myelitis and its management.
4. Vertigo and its management
5. Write about clinical features of meningitis.
6. Difference between pyramidal and extra pyramidal tract lesion
7. Write about movement dysfunction.

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

8. Define dementia.
9. Causes of Dysphagia
10. Nystagmus
11. Bell's palsy
12. Give two uses of CSF examination.

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - APRIL-2018

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 head injury and its types. Write about clinical features and management of Diffuse Axonal injury.
2. What is Rhizotomy? Write about its indications and complications.

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

3. IVDP and its management
4. Causes of Haemorrhagic stroke and its management
5. Surgical management of Polio
6. Types of Brain tumors
7. Embolization

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

8. Pallidotomy
9. Deep brain stimulation
10. Nerve biopsy
11. Evoked potentials
12. Reflex sympathetic dystrophy

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T Degree Examination – SEP-2018

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. Write the physiotherapy management for cemented – Total Hip Replacement (THR) from day 1 (one) post-operative to 12 weeks. Add a note on precautions to be taken after THR.
2. What are the clinical features of Ankylosing Spondylitis? Explain the aims of the physiotherapy management.
3. Name the various surgical interventions methods for lumbar intervertebral disc prolapse. Explain the physiotherapy management assessment after lumbar laminectomy.
4. Describe the Mckenzie assessment for the Low back pain.
5. A 28 year old sportsman has recurrent shoulder dislocation. Mention the surgical management with emphasis on post-operative physiotherapy goals and management.

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

6. Explain with examples of closed kinematic and open kinematic chain quadriceps strengthening exercises.
7. Explain the principles of physiotherapy management in tri malleolar fracture of ankle treated conservatively.
8. Compile physiotherapy assessment for biceps tendonitis along with the special test which aids in diagnosis.
9. What are the common complications of fracture of Colle's fracture treated conservatively? Explain the methods used to improve the range of motion of wrist joint.
10. Explain the procedure and interpretation of manual muscle testing of quadriceps muscle.
11. What are the immediate complications of mid shaft femur fracture. Explain the short term and long-term goals following internal fixation of femur.
12. Discuss the mechanism of locking of knee with emphasis on the role of meniscus during knee extension.
13. What is plantar fasciitis? Discuss the electrotherapy and exercise management for sub-acute condition.
14. What is proprioceptive training? Explain briefly the proprioceptive exercises for ankle joint.

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

15. Name two special tests for cervical spondylosis.
16. Define isometric exercise.
17. Write the interpretation of straight leg raise test.
18. Mention any two effects of rhythmic stabilization exercise.
19. What is Boutonniere deformity?
20. Describe McMurray test for knee joint.
21. What is Genu recurvatum?
22. Define angle of torsion of Femur.
23. What is cubital valgus?
24. Name two corrective brace for scoliosis.

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – SEP-2018

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. A 56 year old male diagnosed with COPD, referred for physiotherapy with the chief complaints of breathlessness and productive cough. How will you identify the problem list on the basis of your assessment? Explain the physiotherapy techniques used to reduce breathlessness.
2. Write the classification of peripheral vascular diseases. Explain the clinical features and physiotherapy management of varicose veins.
3. A 25 year old pregnant antenatal program for her. Explain the importance of exercises in pregnancy.
4. What is psoriasis? Write the etiology, pathophysiology and clinical features of psoriasis. Explain the physiotherapy management of the same.
5. Define Ankylosing Spondylitis with its etiology and clinical features. List the common deformities occurring in Ankylosing Spondylitis. Brief about the physiotherapy management for the same.

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

6. Define and classify respiratory failure. Write the physiotherapy management of any one type of respiratory failure.
7. Define inflammation. Explain the management of acute inflammation.
8. Explain the role of Faradism under pressure in the treatment of lymphedema of left upper limb.
9. Write a note on mechanical ventilation and its modes.
10. List the inspiratory muscles of respiration. Briefly write the exercises to increase strength of inspiratory muscles.
11. What is cyanosis? List the types of cyanosis. Write the pathophysiology behind peripheral cyanosis with examples.
12. Write a note on principles of aerobic exercises. Plan an exercise prescription for a obese person with a Body Mass Index (BMI) -31
13. Write a note on Autogenic drainage. List its indication and the disadvantages.
14. List the risk factors of coronary artery disease. Mention ways to prevent them.
15. Sate any five anatomical and physiological differences between adult and paediatric lungs.

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

16. Give two clinical features of Vitamin C deficiency.
17. How will you calculate Karvonen's formula?
18. What is Bronchopleural fistula?
19. List any four Propioceptive neuromuscular facilitation of repsiration.
20. Borg scale of perceived exertion
21. What is alopecia? What is treatment dose of UVR in alopecia?

Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – SEP-2018

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. Outline the principles of evaluation following cerebrovascular accidents and Add a note on dystonia.
2. How would you plan physiotherapy management for a 45 year old patient with complete cord lesion at T 6 cord level?
3. Discuss principles and techniques of Bobath's s approach in neurorehabilitation.
4. Enumerate causes of neurodevelopment disorders. Explain reflex maturation and testing.
5. Describe role of physiotherapy in Amyotrophic Lateral Sclerosis.

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

6. Techniques and Uses of quick icing in neurorehabilitation
7. Thoracic outlet syndrome
8. Orthotic prescription following median nerve injury at the level of upper 1/3rd of forearm
9. Gait in spastic diplegia.
10. Role of Physiotherapy for Heriditary sensory motor neuropathy
11. Principles of Brunnstrom's movement therapy.
12. Exercise prescription guidelines for muscular dystropthy
13. Management of motor paralytic bladder
14. Complications of encephalitis and role of Physiotherapy
15. Exercise prescription in Myasthenia gravis

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

16. Obturator nerve palsy
17. ASIA scale
18. Principle underlying constraint induced movement therapy
19. Assessment of memory
20. Rhombergs sign
21. Barthel index scale
22. Cogwheel rigidity
23. Tonic labyrinthine reflex
24. Innervation of lumbricals
25. Visual field defects associated with cerebrovascular accidetns

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Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – SEP-2018

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. Describe physiotherapy management in congenital heart disease.
2. Explain physiotherapy management in pneumothorax.
3. Incisions, types, indications and contraindications
4. Explain physiotherapy management of tendon transfer in Leprosy.
5. Explain the phases of Cardiac rehabilitation in a 65 year old patient with Myocardial Infarction.

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

6. Active cycle of breathing techniques
7. Principles of Exercise Prescription
8. Skin grafts and types
9. Physiotherapy management in Prostectomy
10. Bronchopulmonary Fistula
11. Complications of Cardiac Surgery
12. Explain Ulcer and its management.
13. Deep vein thrombosis
14. Neurophysiological Facilitatory Stimuli
15. Cystectomy

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

16. Respiratory Distress Syndrome
17. Otitis Media
18. Metabolic Acidosis
19. Appendectomy
20. Pelvic Floor exercises
21. Contraindications of Heart Transplant
22. Annuloblasty
23. Haemoptysis
24. Complications of Pregnancy
25. Adenoids

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – SEP-2018

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

Neuro Physiotherapy - (RS–3 & RS-4)

Q.P. CODE: 2720

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

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

1. Classify head injury. Explain the assessment and PT management based on RLA scale.
2. Explain clinical features of Guillain-Barre Syndrome. Write Physiotherapy management of a recovering GBS patient with respiratory muscle involvement.
3. Discuss Blood circulation to brain. Explain clinical feature and physiotherapy management of right MCA infarct.

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

4. Examination of higher mental functions
5. PT management of post polio syndrome
6. Explain PT management for common peroneal nerve palsy.
7. Importance of developmental screening test
8. Explain bladder management in spinal cord injury patient.
9. Explain types of gait in spastic diplegic cerebral palsy.
10. Circulation of CSF
11. Brain stem reflexes
12. Post operative management for spinal disc herniation
13. Management of spasticity
14. Facilitatory technique
15 Discuss post operative physiotherapy for Sub dural Hematoma.
16. Functional Grades in Muscular Dystrophy
17. PT management for Multiple sclerosis

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

18. What is micrographia?
19. Define Chorea.
20. Glabellar tap sign
21. Asymmetrical tonic neck reflex
22. Reflex grading
23. Gower's sign
24. Test for co-ordination
25. Evaluation of fourth cranial nerve
26. Classify motor neuron diseases.
27. Write any four principles of NDT.

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – SEP-2018

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 health. Explain dimension and indicators of health.
2. What is screening? Explain objectives and types of screening.
3. Define epidemiology. Explain prevention and control of tuberculosis.

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

4. Causes of maternal mortality
5. Disaster management
6. Sources of hospital waste
7. Incidence and prevalence
8. Balanced diet
9. Pulse polio immunization
10. Postnatal care
11. Child health programmes
12. Determinants of health
13. Functions of family

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

14. Incineration
15. Classification of food
16. Nosocomial infection
17. Causes of blindness in India
18. Window period in HIV
19. Iodine deficiency disorder
20. Growth chart
21. Types of rehabilitation
22. Pandemics
23. Cold chain

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – SEP-2018

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 screening. What are the various types of screening? Write a note on uses and limitations of screening
2. Write a detailed rehabilitation program based on principles of exercise prescription for a 79 year sedentary female who is osteoporotic and diabetic
3. What are the common occupational hazards faced by traffic police? Write a note on prevention and management of varicose veins

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

4. Define vocational rehabilitation. Add a note on vocational team
5. Detail about caregiver education and management of dementia in the community settings
6. International classification of functioning health and disease
7. Define community and write a note on multiplicity of community
8. Stakeholders of CBR
9. Multidisciplinary rehabilitation team
10. Planning and management of CBR programme
11. Differentiate between disability, handicap and impairment with one example each
12. What is disability evaluation? What do you mean by quantitative and qualitative disability evaluation?
13. Write a note on any 10 human rights of persons with disability as mentioned by the UN convention for human rights
14. Role of social worker
15. Measurement and check out for canes and crutches
16. Primary rehabilitation unit
17. Principles of CBR

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

18. Low cost aids and appliances
19. What is meant by "high risk"
20. Residential homes
21. Cardiac changes in old age
22. Physical hazards
23. Types of rehabilitation
24. Define CBR
25. Scope of CBR
26. Primary health centre
27. Governance of CBR program

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – SEP-2018

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

COMMUNITY BASED REHABILITATION
(RS – 3 & RS - 4)
Q.P. CODE: 2722

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24. Define CBR
25. Scope of CBR
26. Primary health centre
27. Governance of CBR program

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - SEP-2018

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. What is myasthenia gravis? Explain clinical features, investigations and management of myasthenia gravis.
2. Describe clinical feature and management of poliomyelitis.

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

3. Explain clinical features of Syringomyelia.
4. Define Brown Sequard syndrome Explain causes & its clinical features.
5. Write about clinical features of encephalitis.
6. Difference between pyramidal and extra pyramidal tract lesion
7. Write about clinical features of Erb's palsy.

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

8. Vertigo
9. Dysphagia
10. Nystagmus
11. Dysarthria
12. Give two uses of CSF examination.

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - SEP-2018

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 Head injury. Write about its classifications, clinical features, investigations and management
2. Write about Brain tumors and its classifications, clinical features and management

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

3. Hemorrhagic stroke and management
4. Hydrocephalus and management
5. Indication and complication of hemilaminectomy
6. Syringomyelia and management
7. Encephalitis and management

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

8. Weber's test
9. Deep brain stimulation
10. Lumbar puncture
11. Brain abscess
12. Write two indications for nerve repair.

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