

Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.P.T. Degree Examination - 03-Mar-2021

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. Cranial nerve examination in detail
2. Classification, diagnosis and management of polyneuropathy.

SHORT ESSAYS (Answer any Three)

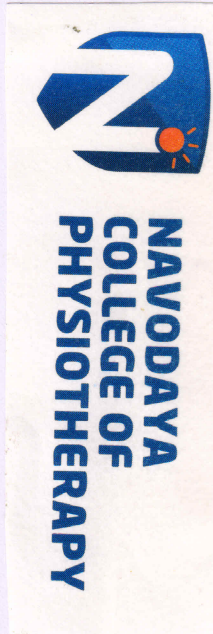
3 x 5 = 15 Marks

3. TIA
4. Risk factors of Stroke
5. NCV
6. Clinical features, management of Wilson's disease

SHORT ANSWERS

5 x 3 = 15 Marks

7. Dysarthria
8. Sensory Ataxia
9. Causes of Encephalitis
10. Chorea
11. Classification of Epilepsy.



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Time: Three 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. Write about types of spinal cord injury and its clinical features. Write about surgical management for the same.
2. Define Hydrocephalus. Write about its causes, clinical features and its surgical management.

SHORT ESSAYS (Answer any Three)

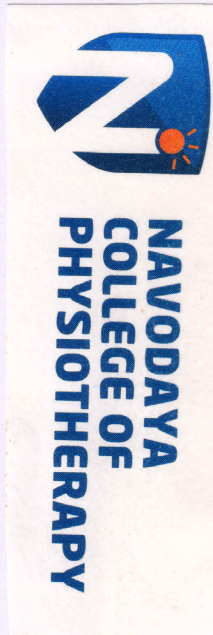
3 x 5 = 15 Marks

3. COMA.
4. Stereotactic surgery.
5. Transfers myelitis.
6. Tendon Transfers.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Lumbar Puncture.
8. Embolization.
9. Ablative surgery.
10. Nerve biopsy.
11. Epilepsy.



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IV Year B.P.T. Degree Examination 03-Mar-2021

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 toxic disorders. Write about its etiology, classification investigation and medical signs and symptoms.
2. Define Haemorrhage stroke. Write about its types, clinical features and its surgical management.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

3. Autism.
4. Perceptual disorders.
5. Spina Bifida and its clinical features.
6. Bell's palsy. Its causes and clinical features.
7. Vertigo.
8. Types of Brain tumours.
9. Tendon transfers.
10. Surgical management of Aneurysm.
11. Stereotactic surgery.
12. COMA.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Dystonia.
14. Automatic bladder.
15. Transverse myelitis.
16. Cerebral palsy.
17. Trigeminal Neuralgia.
18. Epilepsy.
19. Importance of Evoked potentials.
20. Deep Brain stimulation.
21. Lumbar Puncture.
22. Endarterectomy.



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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – 09-Mar-2021

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. Define Epidemiology. Mention the principles and uses of epidemiology.
2. Define Maternal Mortality Rate. Write a note on antenatal and postnatal care.

SHORT ESSAYS TYPE (Answer any Eight)

8 x 5 = 40 Marks

3. UNICEF
4. Hospital acquired infections
5. Prevention of occupational diseases
6. Role of physiotherapist in treating persons with mental retardation
7. Medical benefits under the ESI Act
8. Nutritional problems in public health
9. Ice-berg phenomenon of disease
10. Sources of hospital waste
11. Uses and types of screening
12. Risk factors for stroke

SHORT ANSWERS

10 x 3 = 30 Marks

13. Role of ASHA worker
14. Types of rehabilitation
15. Fluorosis
16. Avoidable blindness
17. Signs of vitamin D deficiency
18. Window period
19. Define ergonomics.
20. BCG vaccine
21. Pneumoconiosis
22. Uses of growth chart



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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – 05-Mar-2021

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. List the various contraceptive methods. Explain any one in detail.
2. Enumerate Nutritional disorders in India. Write in brief epidemiology and prevention of protein energy malnutrition.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

3. Medical benefits under ESI act.
4. Types of communication.
5. Pneumoconiosis.
6. MMR vaccination.
7. Postnatal care.
8. Epidemic.
9. What are the aims and objectives of under – five clinic?
10. Approaches to health education.
11. Sources of hospital wastes.
12. Health problems of the aged.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Signs of Vitamin C deficiency.
14. Case fatality rate.
15. Window period in HIV.
16. Case control study.
17. Complications of diabetes.
18. Role of ASHA worker
19. National family welfare programme.
20. Crude death rate.
21. DOTS.
22. Food fortification.



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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – 05-Mar-2021

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. Write an essay on assessment and PT management of 60-year-old female with right MCA stroke with duration of 8 months.
2. Explain scissoring gait analysis. How will you train gait for 8-year-old spastic diplegic cerebral palsy?

OR

Define Parkinson's disease. Write about assessment and PT management of 55-year-old male with Parkinson's disease since 6 years.

SHORT ESSAYS (Question No.3 & 12 choice)

10 x 5 = 50 Marks

3. Define diffuse axonal injury and its PT management.
4. Effects and uses of electrical stimulation in nerve injuries
5. Define transient ischemic attack and its PT management.
6. Functional evaluation of neurological disorders
7. Physiotherapy management of athetosis
8. Write about Berg balance scale and its uses.
9. Principles and uses of Vojta technique
10. Physiotherapy management for Sciatica
11. Write a note on developmental reflexes.
12. Long term goals of PT management in myasthenia gravis

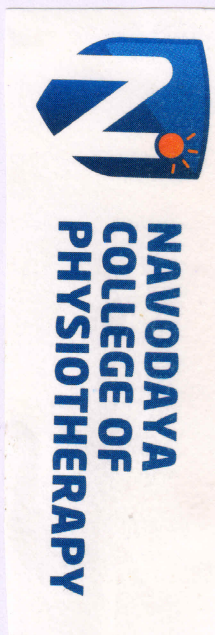
OR

Describe Asia scale and its uses

SHORT ANSWERS

10 x 3 = 30 Marks

13. 4 uses of hand coordination exercises
14. Effect of warmth on abnormal tone
15. Define high risk infant.
16. What is Ptosis?
17. What is tremor?
18. Klumkey's palsy
19. Effects of coma stimulation
20. Types and uses of bio-feed back
21. Brown Sequard syndrome
22. Functions of neuromuscular junction



Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - 09-Mar-2021

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. Classify Head Injury. Explain the assessment and Physiotherapy management based on RLA scale.
2. Write the assessment and physiotherapy management for 60 year old male suffering from Parkinson Disease (Modified Hoehn and Yahr stage-2).

OR

Describe the Physiotherapy of a case of acute transverse Myelitis at T5 spinal segment in recovery stage.

SHORT ESSAYS (Question No 3 & 12 choice)

10 x 5 = 50 Marks

3. Explain detail Principles of PNF techniques.

OR

Ulnar nerve injury management.

4. Secondary complications in Cerebral Palsy.
5. Motor function assessment.
6. Explain briefly the concept and components of Motor Relearning Program.
7. Management of wrist drop.
8. Management of amyotrophic lateral sclerosis.
9. Rancho-los amigos scale.
10. Physiotherapy management of fatigue in multiple sclerosis.
11. Describe the principles of Frenkel's exercise with examples.
12. Write a note on Sensory Integration Approach.

OR

Write a note on developmental milestones.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Testing of 8th cranial nerve.
14. Four uses of positioning.
15. Involuntary movements.
16. Corneal reflex.
17. Kernig's sign.
18. Reflex grading.
19. ULTT-1.
20. Romberg's sign.
21. Cardinal signs of Parkinson's disease.
22. Movement decomposition.



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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – 12-Mar-2021

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 community-based rehabilitation. List various approaches of CBR. Differentiate between community-based rehabilitation and institution-based rehabilitation
2. Define disability. Mention the types and causes of disability. Write a note on prevention of disability

OR

Write in detail about persons with disability act (equal opportunity protection of right, and full participation) 1995

SHORT ESSAYS (Question No.3 & 12 choice)

10 x 5 = 50 Marks

3. Write a note on community initiated versus community-oriented programs

OR

Write in details about role of physiotherapist in CBR

4. Define social work and write about various methods of social work
5. Mention any 5 bilateral agencies, write in detail about CARE
6. Regional rehabilitation and training centres
7. How would you screen newborns for cerebral palsy
8. Write a note on extension service
9. Details the vocation rehabilitation team members and add a note on prevocational evaluation
10. Discuss in detail the musculoskeletal changes of aging
11. What are the different types of rehabilitations
12. Write a note on community participation

OR

Strategies to improve ADL

SHORT ANSWERS

10 x 3 = 30 Marks

13. Define rehabilitation
14. Decentralization in CBR
15. Uses of disability evaluation
16. Objectives of CBR
17. Any 4 provision in the law protection rights of persons with disabilities
18. Sustainability of CBR programme
19. Define handicap
20. Need for disability evaluation
21. Integrated education system (program) for PWD
22. WHO



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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – 12-Mar-2021

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. Explain in detail about screening and rehabilitation of Cerebral palsy and its early Detection for high risk infants.
2. Explain in detail about role of PT in psychological hazards & its stress management with relaxation modes.

Or

Define community and explain in detail about multiplicity of communities and community entry strategies in CBR.

SHORT ESSAYS (Question No.3 & 12 choice)

10 x 5 = 50 Marks

3. Define Impairment, Handicap and Disability. Write the differences between the three and its causes.

Or

Role of physiotherapist in oversuse/fatigue for constant standing in watchman.

4. Write in brief about institutional based rehabilitation in 60yr old patient with Dementia.
5. What is the role of anganwadi worker in District level programme?
6. What are the uses of qualitative versus quantitative data in disability evaluation?
7. Explain various legislations for physically handicapped.
8. Write about objectives and scope in CBR in India.
9. Explain physiology of ageing in cardio-respiratory system.
10. What is the need for camp approach?
11. Advantages and disadvantages of CBR programme.
12. Specify the role of members of a vocational rehabilitation team.

Or

Explain various government laws, policies and programmes in CBR.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Role of UNFPA.
14. Dangers in biological hazards.
15. Write any four uses of mobile vans.
16. Various members in CBR team.
17. Drawbacks of CBR.
18. Meals on wheels.
19. What is 'bottom up' approach in CBR?
20. Human rights policy.
21. Define epidemiology.
22. UNICEF.



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Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.P.T. Degree Examination - 16-Mar-2021

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. What are measures of central tendency? Explain each of them with an example. Why they are called measures of central tendency?
2. What is meant by sampling? Explain the different methods of sampling.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

3. Normal Probability Curve.
4. Basic concepts of concerning testing of hypothesis.
5. Objectives of research.
6. Uses of computer in medical research.
7. Explain the steps involved in processing of data.
8. Differentiate between research methods and methodology.
9. Uses of t-test.
10. Motivation in research.
11. Analysis of variance and covariance.
12. Define standard deviation and state the steps in computing standard deviation.

SHORT ANSWERS

10 x 3 = 30 Marks

13. Editing.
14. Kurtosis.
15. Ex Post Facto Research.
16. Research Problem.
17. Histogram.
18. Research Approaches.
19. One tailed and two tailed test.
20. Ordinal Scale.
21. Probability.
22. What is binomial Distribution?



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