Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T. Degree Examination – APRIL-2019

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 balanced diet? Explain the basic principles of diet & nutrition.
2. Explain in detail about the cardio respiratory adaptations to physical training.
3. Define yoga. Classify asana with examples.

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

4. Define obesity? Explain the causes, types and methods prevention.
5. Describe Yin & Yang
6. Explain the risk factors for injury.
7. Define & explain Sun therapy.
8. Define Health? Explain the Determinants of health.
9. Describe the functions of carbohydrates & fats
10. Indications & contraindication of Magneto-therapy
11. Explain the circuit & interval methods of training and its effects
12. Therapeutic effects of acupuncture?
13. Write about the causes of fatigue? Management of fatigue from physiotherapist's perspective.

SHORT ANSWERS 10 x 2 = 20 Marks

14. Write any two Hazards of anabolic steroid.
15. Define Plyometrics
16. Mention Sub-maximal tests
17. Define Flexibility
18. Uses of Cholesterol
19. Mega Vitamin Therapy
20. Write two effects ofcool down exercises
21. Grades of strain
22. Define peroidization
23. Define Pre-game meal.

Rajiv Gandhi University of Health Sciences, Karnataka

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IV Year B.P.T. Degree Examination – APRIL-2019

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. Explain the assessment and physiotherapy management for balance and co-ordination deficits.
2. Explain the assessment and physiotherapy management of a 20 year old male patient with brachial plexus injury duration of 2 months
3. Explain the assessment and physiotherapy management of a 72 year old man with Parkinson's disease duration of 1 year

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

4. Explain the classification and physiotherapy management of Spinal Muscular Atrophy.
5. Enumerate the principles of Proprioceptive neuromuscular facilitation.
6. Explain the causes, assessment and physiotherapy management of Axillary Nerve palsy.
7. Plan the assessment and management of a patient with left sided unilateral neglect.
8. Discuss the assessment and management of a 7 year old boy with Duchenne's muscular dystrophy.
9. Discuss the assessment and physiotherapy management of Hemiplegic gait.
10. Write a note on Apraxia, its types and physiotherapy management.
11. Write a note on Barthel Index.
12. Discuss the physiotherapy management of a 12 year old girl with Guillain – Barre syndrome during the acute phase in the ICU.
13. Write a note on Sensory Integration Approach.
14. Explain the importance of energy conservative techniques in Myasthenia Gravis.
15. Explain the post-operative physiotherapy management of a patient with L4-L5 Spinal Laminectomy.
16. Explain the assessment management of a patient with multiple sclerosis.
17. Define Developmental Screening. Add a note on APGAR score.

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

18. Modified Ashworth Scale
19. Romberg's test
20. Claw hand deformity
21. Define Agnosia and its types.
22. Athetosis
23. High risk babies
24. Define Developmental Screening.
25. Gower's sign
26. Doll's eye phenomenon
27. Bell's phenomenon

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – APRIL-2019

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. Classify occupational disease. Explain measures for health protection form occupational hazards.
2. Classify mental illness. Explain role of physiotherapist in mental retardation.
3. Define epidemiology. Explain disease prevention and control. Add a note on modes of disease transmission.

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

4. Levels of prevention
5. Causes of blindness in India
6. Sources of health information
7. Classification of carriers
8. Hazards of immunization
9. Nutritional problems in public health
10. Intra uterine contraceptive device
11. Causes of maternal mortality
12. National family welfare programme
13. Models of health education

SHORT ANSWERS 10 x 2 = 20 Marks

14. Medical benefits under ESI act
15. Oral rehydration therapy
16. Broken family
17. Window period in HIV
18. Child abuse
19. Vitamin A prophylaxis
20. Prevention of iron deficiency anemia
21. Case control study
22. Cardinal features of leprosy
23. Street and fixed virus

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – APRIL-2019

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 detailed principles of CBR and WHO Policies about Rural Health Care concept.
2. Explain Survey and screening detection of disabilities and development disorders.
3. Explain Physiology of aging in neuro motor and Cardio-Respiratory System.

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

4. Models of CBR
5. Members of CBR Team and their role CBR
6. Explain communication and Co-Ordination in planning, management of CBR Programme.
7. What is Disability Evaluation? Uses of evaluation.
8. Role of Government in CBR for Human Rights Policy
9. Explain History of Social work and their role in Rehabilitation.
10. Explain Multilateral and Bilateral Agencies.
11. District Rehabilitation Centre
12. Role of PT in prescribing and Advising low cast locally available assistive aids
13. Preventive Rehabilitation of Mental Retardation
14. Geriatric counseling and its uses
15. Explain Vocational Rehabilitation Services.
16. Need for extension services
17 Explain Levels of Biological Hazards with examples.

SHORT ANSWERS 10 x 2 = 20 Marks

18. Incontinence
19. WHO
20. ICDS
21. Meals on Wheels
22. Define CBR.
23. Ionizing Radiation
24. Monotonicity
25. Samples Survey
26. Primary Rehabilitation Unit
27. Impairment

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – OCT 2019

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. Explain the causes of spinal cord injuries. How will you assess and manage 28 year old male with C5-C6 level spinal cord injury with duration of 1 year.
2. What are the causes of 7th cranial nerve palsy? Write about clinical features, assessment and PT management of 21 year old female with left side 7th cranial nerve palsy.
3. Write about causes, clinical features, assessment and PT management of hydrocephalus.

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

4. Define ataxia and PT management of sensory ataxia.
5. Write about spinal muscular atrophy and its PT management.
6. Write a note on balance assessment.
7. Define spina bifida and its PT management.
8. Write about yoga in neurological disorders.
9. Physiotherapy management of thoracic outlet syndrome
10. Importance of developmental screening
11. Write note on sensory examination.
12. Define muscle tone. What are different types of abnormal tones?
13. Physiotherapy management of hemiplegic gait
14. Physiotherapy management of Cauda Equina lesion
15 Write a note on high risk babies.
16. Physiotherapy management of fatigue in multiple sclerosis
17. Physiotherapy management of amyotrophic lateral sclerosis in acute stage

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

18. Kernig’s sign
19. Sunset sign
20. APGAR score
21. Define Down’s syndrome.
22. Reflex grading
23. Tinel’s sign
24. Glabellar tap sign
25. Key points in NDT
26. Reflex inhibiting pattern
27. Brushing technique

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – OCT-2019

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. Describe various health programmes. Explain national tuberculosis programme.
2. Classify occupational disease. Explain measures of health protection from occupational hazards.
3. What is screening? Explain objectives and types of screening.

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

4. Functions of family
5. Pulse polio immunization
6. Child health programmes
7. Types of communication
8. Sources of health information
9. Classification of carriers
10. Risk factors for obesity
11. Incidence and prevalence
12. Balanced diet
13. Causes of blindness in India

SHORT ANSWERS 10 x 2 = 20 Marks

14. Warning signals of cancer
15. National family welfare programme
16. Demographic cycle
17. WHO
18. Man-made disaster
19. Prevention of iron deficiency anemia
20. Incineration
21. Odd ratio
22. Oral rehydration therapy
23. Window period in HIV

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – OCT-2019

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 work related musculoskeletal disorder. Explain work hardening programme for person with vibration white finger syndrome.
2. Define community based rehabilitation. Write the difference between institutional based rehabilitation and community based rehabilitation.
3. Define community. Discuss the community initiated versus community oriented programme.

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

4. Discuss disability evaluation.
5. Social problems of old age
6. Explain vocational training in rehabilitation.
7. District rehabilitation centers
8. Management of paraplegic patient in community set up
9. Define ergonomic. Write ergonomic advice to desktop operators.
10. Difference between impairment and Handicap with examples
11. Architectural barriers for disabled
12. Write aging changes of cardiovascular system.
13. Role of village rehabilitation worker in CBR
14. Explain the types of urinary incontinence and its management at community level.
15. Explain the chemical hazards in industries.
16. Role of physiotherapist in hospital based care in geriatrics
17. Differentiate work hardening from work conditioning

SHORT ANSWERS 10 x 2 = 20 Marks

18. Define rehabilitation.
19. Define survey.
20. Functions of Ford foundation
21. Define Handicap with examples.
22. Name the test for coordination.
23. Decentaralization in CBR
24. Gower’s sign
25. Two advantages of outreach services
26. ASHA
27. Role of placement officer

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - OCT-2019

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 stroke? Explain classification and management of hemorrhagic stroke.
2. Define motor neuron disease. Explain classification, clinical features and management.

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

3. Write about clinical features of vestibular dysfunction.
4. Syringomyelia – causes and clinical features
5. Define encephalitis and its clinical features.
6. What is GB syndrome and its management?
7. Explain management of post polio residual palsy.

SHORT ANSWERS 5 x 2 = 10 Marks

8. Define rigidity.
9. Foot drop
10. Bell's palsy
11. Give two uses of computerized tomography.
12. What is Gag reflex?

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IV Year B.P.T. Degree Examination - OCT-2019

Time: Three 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. Causes, clinical features, investigation and management of Brain tumor.
2. Causes, clinical features, diagnostic methods and management of IVDP

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

3. Rhizotomy
4. Management of Spina bifida
5. Indication and complication of Burr hole procedure
6. Neurogenic bladder
7. Transverse Myelitis

SHORT ANSWERS 5 x 2 = 10 Marks

8. Median nerve palsy
9. Brucellosis
10. Athetosis
11. Lacunar stroke
12. Deep brain stimulation

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination –OCT-2019

Time: 3 Hours Max. Marks: 80 Marks

Neurology & Neurosurgery – (RS-5)

Q.P. Code: 2747

SECTION – A (Neurology)

Your answers should be specific to the questions asked.

Draw neat, labelled diagrams wherever necessary

(Note: Both sections A & B are to be answered within a total duration of 3 hours in the same answer booklet)

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

1. Define Spina Bifida. Write about its causes, clinical features and management.
2. Write about post polio syndrome, its pathophysiology, clinical features and management.

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

3. Causes and management of facial palsy.
4. Importance and uses of Cerebro Spinal Fluid examination.
5. Describe Hydrocephalus in detail.
6. Clinical features and management of Wilson's diseases.
7. Explain cortical mapping in detail.

SHORT ANSWERS 5 x 2 = 10 Marks

8. Activities of Electromyography.
9. Vestibular Vertigo.
10. Insomnia.
11. Brucellosis.
12. Radiation myelopathy.

SECTION – B (Neurosurgery)

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

13. Explain clinical features, investigations and management of lumbar inter vertebral disc prolapse. (IVDP).
14. Classify peripheral nerve injuries. Add a note on different surgical procedure for the same.

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

15. Describe Craniotomy and Cranioplasty.
16. Invasive and non invasive neurological examination procedures.
17. Microvascular decompression surgery.
18. Surgical management in cerebral palsy and its importance.
19. Coma and its management.

SHORT ANSWERS 5 x 2 = 10 Marks

20. Neural implantation.
21. Lumbar puncture.
22. Rhizotomy.
23. Endarterectomy.
24. Deep brain stimulation.

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – OCT 2019

Time: Three Hours | Max. Marks: 80 Marks

COMMUNITY MEDICINE

Q.P. CODE: 2748 (RS-5)

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 epidemiology. Mention its scope, principles and methods used in infectious disease.
2. Enumerate Maternal and Child Health problems. Explain various social welfare programmes for women and children.
3. Explain in detail the characteristics of a mentally healthy person. Enumerate in detail the types, causes and prevention of mental illness.

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

4. Explain Concepts, Aims and objectives of Health Education in detail.
5. Explain Occupational hazards, its disease and Prevention.
6. Explain in detail about disaster management, its impact and response on the society.
7. Explain the role of Physiotherapist in various mental health problems.
8. Explain the uses and types of Screening for various diseases.
9. Explain the side effects and complications of intra-uterine devices.
10. Describe the functions of UNICEF.
11. Explain the principles of health education.
12. Explain in detail about various community nutrition programmes.
13. Define fertility. Explain various factors affecting fertility.

SHORT ANSWERS 10 x 2 = 20 Marks

14. Define active and passive immunity. Mention its types.
15. Droplet infection.
16. Occult Filariasis.
17. Mention any four risk factors for Breast cancer.
18. What do mean by Bitot's spots?
19. Farmer's lung.
20. Define drug, drug abuse and drug dependence.
21. Write any four role of Ford foundation.
22. What is the role of Food and Agriculture Organization (FAO)?
23. What is social security?

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - OCT-2019

Time: Three Hours | Max. Marks: 100 Marks

NEURO PHYSIOTHERAPY
Q.P. CODE: 2749 (RS-5)

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 Stroke. Write the assessment and Physiotherapy management for a 60 year old female patient suffering from Left Middle Cerebral Artery stroke (Brunnstrom Stage I).
2. Write the assessment and physiotherapy management for 50-year-old male suffering from Parkinson Disease (Modified Hoehn and Yahrr stage 2)
3. Define Cerebral Palsy. Describe the Pediatric assessment and management for a 10-year-old child suffering from Left Infantile Hemiparesis.

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

4. Explain the Physiotherapy management for Unilateral Neglect.
5. Describe the principles of Frenkel's Exercises with examples.
6. Write about Physiotherapy management for Neurogenic Bladder.
7. Explain the principles of Neurodevelopmental treatment approach.
8. Physiotherapy treatment for post polio residual paralysis. Explain.
9. Explain the testing of any four combined cortical sensations.
10. Write the assessment for Decubitus Ulcer.
11. Importance of Neurodevelopmental testing in pediatric physiotherapy.
12. Mention four complications post craniotomy and their physiotherapy management.
13. Physiotherapy management in the intensive care unit for a Guillian Barre patient.
14. Write about five Multimodal sensory stimulation treatment techniques used in Traumatic brain injury patients.
15. Explain the functional assessment in Neurological conditions.
16. Principles and techniques in Roods Approach.
17. Physiotherapy management for acute Saturday night palsy.

SHORT ANSWERS 10 x 2 = 20 Marks

18. Ranchos Los Amigos scale.
19. Define Apraxia and types.
20. Pudendal Nerve Palsy.
21. Four complications of Spinal Cord Injury.
22. Define Rigidity and types.
23. Tarsal Tunnel Syndrome.
24. Two uses of Electromyography Biofeedback.
25. Scissoring Gait.
26. Clinical features of Gullian Barre Syndrome.
27. Mention two uses of Tilt table.

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - OCT-2019

Time: Three Hours | Max. Marks: 100 Marks

COMMUNITY PHYSIOTHERAPY
Q.P. CODE: 2750 (RS-5)

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 are the methods of evaluation of a CBR programme?
2. Briefly outline the differences in the disability profiles of the developed and developing world. What are the CBR strategies that can be implemented to minimize the burden of potentially disabling communicable diseases?
3. Describe the principles of disability evaluation. How is the evaluation used to help persons with disability?

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

4. What are the points to be considered while developing a patient education pamphlet?
5. Describe the necessity of vocational counselling for complete rehabilitation of a person with disability.
6. What are the components to be considered for elder fitness evaluation?
7. What are the neuro musculoskeletal risk factors of working with vibration tools?
8. What are the steps of a work station assessment?
9. Describe briefly the steps of evaluation for management of a person with diabetes mellitus.
10. Describe briefly the importance of exercise for management of hypertension including the physiology.
11. What are the potential work related musculoskeletal risk factors of sedentary jobs?
12. What are the furniture recommendations to decrease potential risk of work related musculoskeletal disorders?
13. What are the policy recommendations to decrease potential risk of work related musculoskeletal disorders in jobs requiring long hours of standing?
14. Enumerate the risk factors for falls in the elderly.
15. Briefly describe the role of physical activity in persons with dementia.
16. Briefly describe the role of physiotherapy in screening for disability in a village.
17. What are the components of health in the CBR matrix?

SHORT ANSWERS 10 x 2 = 20 Marks

18. Define the levels of health according to World Health Organisation.
19. What are the goals of mobile rehabilitation units?
20. Define disability.
21. List the parts of the ICF model of functioning.
22. List the stakeholders in community based rehabilitation of a person with disability.
23. List two methods of ensuring inclusion of persons with disability in disaster management.
24. What is accessibility audit?
25. Define universal design.
26. Define community based rehabilitation as given by World Health Organisation.
27. List the stake holders in goal setting for persons with disability in the community.

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Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - OCT-2019

Time: Three Hours | Max. Marks: 80 Marks

RESEARCH METHODOLOGY & 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 Two) 2 x 10 = 20 Marks

1. Define probability. Explain the important sampling distributions.
2. A sample of 40 bankers with work related chronic neck pain revealed the following data.

Neck disability Index (NDI)	0-20	20-40	40-60	60-80	80-100
Number of workers	7	8	12	9	4

Calculate mean, median and mode.

3. Explain the problems encountered by researches in India.

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

4. Explain the characteristics of good research.
5. Explain the stratified random sampling technique.
6. Explain about divergence from normality.
7. Explain the basic principles experimental design.
8. Write about processing and analyzing data.
9. Explain the method of collecting primary data. Add note on its merits and demerits.
10. How will you draw a pied diagram? Explain with suitable example.
11. Explain the role of computers in physiotherapy research.
12. Explain the steps in testing of hypothesis.
13. Explain about Quantitative and qualitative research.

SHORT ANSWERS 10 x 2 = 20 Marks

14. Histograms.
15. Sampling units.
16. Randomized controlled trials.
17. Convenience sampling.
18. Artificial research.
19. One tailed and two tailed test.
20. Any two objective of research.
21. Necessity of defining research problem.
22. Frequency polygon.
23. Level of significance.

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