Rajiv Gandhi University of Health Sciences, Karnataka

Final year B.P.T Degree Examination – 24-Aug-2020

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. Define soft tissue injury. Classify soft tissue injuries and explain in detail about PT management of ACL injury.
2. Define amputation. Explain in detail about PT management for below knee amputee.
3. Define fracture, its classification and explain in detail about PT management of supra-condylar fracture of humerus.
4. Define disc prolapse and explain its stages, PT management for stage II cervical disc prolapse.
5. Define CTEV. Explain in detail about conservative and PT management following surgical corrections of CTEV.

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

6. Complications of fracture
7. Volkmann's ischemic contracture
8. PT management of fracture clavicle
9. TB spine
10. Scoliosis and its PT management
11. Soft tissue releases in poliomyelitis
12. Golfer's elbow
13. Complications of amputations
14. PTB prosthesis and check out procedure

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

15. Grades of spondylolisthesis
16. Osteotomy and mention any two indications.
17. Three point pressure principle
18. Delayed complications of fracture
19. Sacralization
20. Boxers fracture
21. Phantom limb
22. Grades of Maitland mobilization
23. Arthroscopy
24. Pes cavus and pes planus

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – 26-Aug-2020

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. Write down the assessment and physiotherapy ma nagement of a paraplegic ma le patient aged 25 years old who is in a Rehabilitation centre.
2. What is Parkinson's disease? Write assessme nt and ma nagement of 50 year old male Parkinson patient.
3. Write about assessment and Physiotherapy manage me nt of Head injury patient who is in ICU.

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

4. Management of Wrist drop
5. Vojta technique
6. Gait training of Trendelenburg gait
7. Management of a myotrophic lateral sclerosis
8. Cauda equina syndrome
9. Tarsal tunnel syndrome
10. Primit ive reflexes
11. Sensory ataxia
12. Features, causes and physiotherapy ma nagement of high stepping gait
13. Nerve conduction velocity
14. Types of nerve injury
15 Sagittal plane gait analysis of normal gait pattern
16. Rancho-los amigos scale
17. Significance of APGAR score

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

18. Glascow coma scale
19. Grasp reflex
20. Scissoring gait
21. Aeroplane splint
22. Types of muscular dystrophy
23. Doll's eye phenomenon
24. Uses of developmental screening tests
25. Deep tendon reflex
26. Cog wheel rigidity
27. Intrinsic minus position of Hand

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – 28-Aug-2020

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. What is screening? Explain objectives and types of screening.
2. Define epidemiology. Explain prevention and control of tuberculosis.
3. Enumerate the national health programmes. Explain national leprosy eradication programme.

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

4. Hazards of immunization
5. Determinants of health
6. Sources of hospital waste
7. Incidence and prevalence
8. Methods of diet survey
9. Juvenile delinquency
10. Types of communication
11. Aims and objectives of health education
12. Functions of world health organization
13. Balanced diet

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

14. Census
15. Iodine deficiency disorder
16. Growth chart
17. Types of rehabilitation
18. Pandemics
19. Cold chain
20. Nosocomial infection
21. Window period in HIV
22. Social security
23. Indicators of MCH service

*****

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – 31-Aug-2020

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 aging. Write in detail about rehabilitation programme for elderly living in old age home.
2. Explain in detail about role of voluntary organization in CBR.
3. Define Industrial therapy. Plan out the evaluation and management of an heavy truck driver with low back pain.

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

4. Explain the factors supporting the CBR programmes.
5. Discuss the various causes, types and methods of prevention of disability.
6. Role of physiotherapist in rehabilitation of a child with muscular dystrophy at community set up
7. Ergonomic measures for pregnant women in community
8. Explain wheel chair parts.
9. Strategies to improve Activity of Daily Living (ADL)
10. Define vocational training and its need.
11. Role of physiotherapist in Industrial set up
12. Exercise prescription for elderly person in community
13. UNICEF
14. Role of physiotherapy in Asthma patients
15. Write the changes in musculoskeletal system due to aging.
16. Explain mechanical hazards over use and fatigue.
17. Role of WHO and World Bank in CBR activities

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

18. Mention four important roles of NGO's in CBR.
19. Define disability and handicap according to WHO.
20. List the members of CBR team.
21. Importance of high risk screening in neonates
22. Role of anganawadi worker in CBR activities
23. Functions of Rock feller
24. Principles of CBR
25. Define community.
26. Define tertiary prevention.
27. Name the test for balance.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - 24-Aug-2020

Time: Three 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. Etiology, classification, clinical features of Epilepsy.
2. Define Spina bifida. Write about causes, clinical features and manage me nt of Spina bifida.

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

3. Down's syndrome
4. Cerebellar Ataxia
5. Tests for vestibular function
6. TIA
7. Causes and treat ment for Facial palsy.

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

8. Dysphagia
9. Asphyxia
10. Vertigo
11. Wallerian degeneration
12. Myasthenia Gravis.

*****

IV Year B.P.T. Degree Examination - 24-Aug-2020

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

Neurosurgery
Q.P. Code: 2724

our 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 classification and clinical features. Write in detail about manage ment of extradural hae metoma.
2. Define Spina bifida and its clinical features, investigations and management

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

3. Indications and complic ations of clipping aneurysm
4. Surgical management of lumbar disc prolapse
5. Management of septic encephalopathy
6. Brown Sequard syndrome
7. Spasticity and its manage ment

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

8. Brucellosis
9. Thalamotomy
10. Give two indications for Burr-hole surgery.
11. Trigeminal neuralgia
12. Ptosis

*****

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination –24-Aug-2020

Time: 3 Hours **Max. Marks: 80 Marks**

Neurology and Neurosurgery

Q.P. Code: 2747

SECTION – A (Neurology)

our answers should be specific to the questions asked. Draw neat , labeled diagrams wherever necessary

(Note: Both sections A & Bare 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 Myasthenia Gravis, Write about its etiopathogenesis, clinical features and management.
2. Define Stroke and causes and types, Mention about its investigations and management.

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

3. Complex regional pain Syndrome and its causes.
4. Higher Mental Functions.
5. Tests of Vestibular functions.
6. Dysphagia and its management.
7. Define Ataxia, its causes and types.

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

8. Define Ptosis.
9. Dyskinesia.
10. Importance of Nerve Conduction Studies.
11. Disorders of eye move ments.
12. Signs of Meningitis.

SECTION – B (Neurosurgery)

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

13. Write about Post-polio syndrome and its clinical features. Write about its surgical ma nagement.
14. Write about spinal cord tumours, its types and its manage ment.

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

15. Define Coma, its causes and its investigations.
16. Syringomyelia and its clinical features.
17. Indication of Cerebro Spinal Fluid examination.
18. Glasgow Coma Sale (GCS).
19. Surgical management of Intervertebral Disc Prolapse.

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

20. Pallidotomy.
21. Upper Motor Neuron Bladder.
22. Nerve biopsy.
23. Indications of Rhizotomy.
24. Cranioplasty.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination – 26-Aug-2020

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 infant mortality rate (IMR). Mention various factors responsible and measures taken for preventing IMR.
2. Define demography. Explain the de mographic cycle and add a note on couple protection rate.
3. What are the concept and principles of health education?

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

4. Prevention of HIV/AIDS.
5. Classification of carriers.
6. Color codes used in hospital waste ma nagement.
7. Health hazards due to industrialization.
8. UNICEF.
9. Ris k factors for obesity.
10. Define screening and its uses.
11. Disaster ma nagement.
12. Barriers in communication.
13. Prevention of hypertension.

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

14. Social security.
15. Cohort study.
16. Child abuse.
17. Types of surveillance in ma laria.
18. List the diseases transmitted through mosquito.
19. Importance of nutrition during pregnancy.
20. PQLI (Physical Quality of Life Index).
21. Passive surveillance.
22. Street and fixed virus.
23. Sources of air pollution.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - 28-Aug-2020

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. Explain the phylogenetic classification of cerebellar functions. Enumerate the clinical features of cerebellar ataxia and discuss the equilibrium and non- equilibrium tests of evaluation.
2. Discuss the typical clinical presentation of Amyotropic Lateral Sclerosis (ALS) and explain the Physiotherapy ma nagement.
3. Classify Spinal cord injury. Discuss in detail the clinical presentation and physiotherapy management of D10 level complete traumatic spinal cord injury.

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

4. Explain the components and presentation of typical Hemiplegic gait.
5. List the disorders of Neuro Muscular Junction (NMJ). Write briefly about Eaton La mbe rt Syndrome.
6. Discuss Viral encephalitis under the following-Cause, Clinical features and me dical management.
7. Describe the components and application of Glasgow Coma Scale (GCS) on a patient post Traumatic Brain Injury stage.
8. Classify the clinical subtypes of Multiple sclerosis. Mention various clinical features seen in patients with multiple sclerosis.
9. Explain sensory ataxia with respect to the clinical presentation and physiotherapy management.
10. Explain the principles of Neuro Developmental therapy (NDT).
11. Write about Ranchos Los Amigos scale of cognitive function.
12. Write about developme ntal screening and early intervention of High risk babies.
13. Explain briefly the concept and components of Motor Relearning Program.
14. Describe Unilateral neglect and explain the physiotherapy interventions to improve the same.
15. Define tone and describe the physiotherapy interventions to ma nage spasticity in Hemiplegia.
16. Explain the principles of Proprioceptive Neuro- musc ular Facilitation (PNF).
17. Write a note on Neurogenic bladder.

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

18. Brudzinski sign
19. What is Dysdiadochokinesia?
20. Define Broca's aphasia.
21. Define Dysphagia.
22. Mention four clinical features of Hydrocephalus.
23. List the components of Flexor synergy in Upper extremity.
24. Mention four clinical features of Down's syndrome.
25. What are the Cerebro Spinal Fluid findings in Pyogenic Meningitis?
26. Brown Sequard syndrome.
27. Babinski sign

*****

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year BPT Degree Examination – 31-Aug-2020

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 neces

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

1. Differentiate between impairment, disability and handicap with appropriate examples. Explain the importance of physiotherapy in the prevention of disabilities with emphasis on early intervention.
2. Describe in detail the neuro musculoskeletal and cardio vascular changes with aging.
3. Explain ergonomic alteration and ergonomic evaluation of computer based work place.

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

4. Describe briefly the importance of exercise for management of hypertension including the physiology.
5. Briefly describe the role of physical activity in persons with dementia.
6. Explain how you will use the ICF framework to plan goal setting.
7. Briefly describe community entry strategies.
8. Explain the importance of communication and coordination in a CBR program.
9. What is work conditioning and work hardening?
10. What are the principles of disability evaluation?
11. Explain any two provisions of persons with disability act (PWD).
12. Describe with an example, the need for participation of stake holders for CBR programme sustainability.
13. Explain any two theories of aging.
14. Describe briefly the advantages of client centric goals for rehabilitation of persons with disability.
15. Characterize the multiplicity of community.
16. Discuss the components of health in the CBR matrix.
17. Sustainability of a CBR program is based on governance - Explain.

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

18. What is ESI Act? (Employees State Insurance).
19. What is meant by universal design?
20. What are the types of disabilities recognized by the Govt. of India?
21. Mention the lacunae of disability evaluation of permanent physical impairment (PPI).
22. List any two personal contextual factors that can act as a barrier in a person with spinal cord injury.
23. List members of CBR team.
24. What is the use of rapid entire body assessment?
25. Name four life style disorders?
26. List any two factors that can lead to a fall in an elderly.
27. Give four characteristics of a community.

*****

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.P.T. Degree Examination - 02-Sep-2020

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 Mar**

1. Define Research. Explain different types of research.
2. Define Biostatistics. Mention branches of statistics of state the characteristics of biostatistics.
3. Define hypothesis. Explain the procedure for hypothesis testing.

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

4. Explain the role of computers in physiotherapy research.
5. Sources of errors in measurement.
6. Need for research design.
7. Normal probability curve.
8. Explain the procedure for tabulation of data.
9. Statement of research problem.
10. Motivation in research.
11. Research methods v/s methodology.
12. Application of statistics in research.
13. Construction of pie chart.

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

14. Mode.
15. Cluster sampling.
16. Sampling unit.
17. Research approaches.
18. One tailed and two tailed test.
19. Ordinal Scale.
20. Define population and sample.
21. Continuous v/s Discrete variables.
22. Define scaling.
23. Probability.

*****