Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Neuro Science Technology Degree Examination – 24-Aug-2020

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

Advanced Neuro Sciences Technology - I

Q.P. CODE: 2845

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. Detail on lumbar plexus and Add a note on its clinical conditions.
2. Describe the recording technique, normative data and pit falls in the Blink reflex study.
3. What do you understand by Somatosensory Evoked potentials? Describe the test protocols and its normative data.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. GBS.
5. Trigeminal neuralgia.
6. CIDP.
7. Axonotemisis and Wallerian degeneration.
8. Median nerve.
9. Bell's palsy.
10. Waveform generators of BAFR.
11. Lumbo-Sacral plexopathy.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Botulinum toxin.
13. Facial nerve palsy.
14. Disorders associated with F-waves.
15 Cubital tunnel syndrome.
16. SAIDP.
17. Multifocal motor neuropathy.
18. Wrist drop.
19. Axonal reflex.
20. Miler fisher syndrome.
21. Limitations of NCS.
22. Variables influencing VEP.
23. Abnormal BAER.

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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Neuro Science Technology Degree Examination – 26-Aug-2020

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

Advanced Neuro Sciences Technology - II

Q.P. CODE: 2846

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. Discuss in detail about autonomic function studies.
2. Describe in detail about normal adult PSG.
3. Detail on stages of sleep and sleep disorders.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. Pediatric PSG
5. Narcolepsy.
6. Pediatric Limp Movement Disorder.
7. DMD
8. SFEMG
9. Jitter blocking
10. ALS
11. Myopathic patterns.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. MUP
13. Fibrillations
14. Polymyocitis
15 Macro EMG
16. Fasciculations
17. RERA
18. Obstructive hypoventilation
19. Nocturnal seizures
20. SIDS
21. Gastro esophageal reflux
22. Myotonia
23. BETS

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Neuro Science Technology Degree Examination – 28-Aug-2020

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

Systemic Diseases

Q.P. CODE: 2847

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. Pathophysiology, clinical features and management of myasthenia gravis. Add a note on its complications.
2. Etiopathogenesis, classification and management of cerebrovascular accident (hemorrhagic).
3. Etiology, clinical features, management of bacterial meningitis.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. Migraine.
5. Bell's palsy.
6. Management of CIDP.
7. Absence seizures.
8. Myotonic dystrophy.
9. Treatment of Parkinsonism.
10. Botulism.
11. Sleep disorders.

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Three cause of epilepsy.
13. CNS autoregulation.
14. Three causes for microcephaly.
15 Three causes for dysarthria.
16. Blood supply of spinal cord.
17. Three causes of mitochondrial myopathies.
18. Three features of tabes dorsalis.
19. Name three antiplatelets.
20. List all the branches of C.N.V
21. Myasthenic syndrome.
22. Three causes for muscle cramps.
23. Three cause for dementia.

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Neuro Science Technology Degree Examination – 10-Dec-2020

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

Advanced Neuro Sciences Technology - I
Q.P. CODE: 2845

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. Essay on somatosensory evoked potentials. Describe the test protocols and its normative data.
2. Explain auditory evoked potentials. Add a note on variables and clinical conditions.
3. What are the principles governing repetitive stimulation of nerves? Describe electrophysiological findings in myasthenia gravis, myasthenic syndrome and botulinum toxin. Add a note on neuromuscular junction.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. Difference between Trigeminal neuralgia and Bell's palsy.
5. GBS
6. MEP
7. Late responses.
8. VEP
9. Blink reflex
10. Facial nerve
11. Sacral plexus

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Femoral nerve
13. Phalen's and Tinel' s test.
14. Temporal dispersion.
15 Hydrocephalus
16. Posterior cutaneous nerve of thigh
17. Diabetic neuropathy
18. Autonomic neuropathy
19. Dementia
20. CIDP
21. Saphenous nerve
22. Wallerian degeneration
23. Axonal temesis

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Neuro Science Technology Degree Examination – 14-Dec-2020

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

Advanced Neuro Sciences Technology - II

Q.P. CODE: 2846

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. Detail on stages of sleep and sleep disorders.
2. Discuss about the principle, procedure, protocols and recording techniques used in EMG. Add a note on different types of EMG electrodes with suitable diagrams.
3. Discuss in detail about autonomic function studies.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. Pediatric PSG
5. Narcolepsy
6. Capnography
7. Video EEG
8. Sleep apnea
9. SFEMG
10. Myopathy
11. Muscle physiology

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Myotonia
13. Neurotransmitters
14. Sympathetic nervous system
15 MUP
16. Broca’s aphasia
17. Cone waves
18. Autosomal dominant disease
19. K-complex
20. BETS
21. Nocturnal seizures
22. Parasomnias
23. Dystonia

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. Neuro Science Technology Degree Examination – 16-Dec-2020

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

Systemic Diseases
Q.P. CODE: 2847

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. Etiopathogenesis, clinical features and management of myasthenia gravis
2. Pathophysiology, clinical features and management of Alzheimer's disease.
3. Etiopathogenesis clinical features and management of bacterial meningitis.

SHORT ESSAYS (Answer any Six) **6 x 5 = 30 Marks**

4. Arterial circle of Willis
5. Absence seizures
6. Describe Antiparkinsonism drugs
7. Bell's palsy
8. Inflammatory myopathies
9. Clinical features and treatment of myotonic dystrophy
10. Clinical examination in cerebellar disorder
11. Extradural hematoma

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

12. Management of bed sores
13. Three drugs of migraine
14. Three causes of paraplegia
15 Clinical features of thoracic outlet syndrome
16. Branches of Trigeminal nerve
17. Management of hydrocephalus
18. Csf picture of tubercular meningitis
19. Three causes of backache
20. Three adverse effects of phenytoin
21. Sleep waves
22. Three causes of dysarthria
23. Treatment of CIDP