THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0321] **MARCH 2021** **Sub. Code: 2532**

(AUGUST 2020 EXAM SESSION)

B.Sc. NEURO ELECTRO PHYSIOLOGY

SECOND YEAR (Regulation 2018-2019)

PAPER II – EVOKED POTENTIALS AND CLINICAL NEUROLOGY

Q.P. Code : 802532

Time: Three hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(3 x 10 = 30)**

1. What is dementia? Mention some examples with clinical features. Also elaborate on recent memory vs remote memory.
2. Demyelinating disorders and various evoked potential tests which can be used in a patient with Multiple sclerosis?
3. Somatosensory evoked potentials from tibial and median nerves, stimulation and recording procedures with clinical applications.

II. Write Notes on: **(8 x 5 = 40)**

1. Neuromuscular junction disorders.
2. Central motor conduction time.
3. Electroretinogram.
4. Apoptosis.
5. Glasgow coma scale.
6. Advantages of visual evoked potential by checker board pattern.
7. Dorsal column in spinal cord.
8. Clinical features of Myopathy.

III. Short Answers on: **(10 x 3 = 30)**

1. Anticoagulants.
2. Clinical features of ataxia.
3. Duchenne muscular dystrophy.
4. Sympathetic skin Response.
5. Aphasia.
6. Leprosy.
7. Cortical visual loss.
8. Airborne disease.
9. Sensory neuronal hearing impairment.
10. Carbamazepine.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0222] **FEBRUARY 2022** **Sub. Code: 2532**
(AUGUST 2021 EXAM SESSION)

B.Sc. NEURO ELECTRO PHYSIOLOGY
SECOND YEAR (Regulation 2018-2019)
PAPER II – EVOKED POTENTIALS AND CLINICAL NEUROLOGY
Q.P. Code : 802532

Time: Three hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(3 x 10 = 30)**

1. Movement disorder, hyperkinetic and hypokinetic - clinical features and examples.
2. The anatomy of the visual system. Describe in detail the methods of performing Flash and pattern reversal visual evoked potentials.
3. Diagram of the lobes of the brain with functions.

II. Write Notes on: **(8 x 5 = 40)**

1. Syncope versus seizure.
2. Usefulness of BAER (Brainstem auditory evoked responses) in newborn screening.
3. Alzheimer's disease.
4. Neurocysticercosis.
5. Ataxia, definition and causes.
6. Draw a normal somatosensory evoked potential on tibial nerve and label it.
7. Enumerate various causes of status epilepticus.
8. Febrile seizures.

III. Short Answers on: **(10 x 3 = 30)**

1. Homonymous hemianopia.
2. Pre and Post synaptic disorders of neuromuscular junction.
3. Bell’s palsy and facial nerve conduction.
4. Mycobacterium leprae.
5. Types of hearing impairment.
6. Vertigo.
7. Trigeminal nerve.
8. Benzodiazepines.
9. Auditory pathway.
10. Parkinson disease.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0922] SEPTEMBER 2022 Sub. Code: 2532
(FEBRUARY 2022 & AUGUST 2022 EXAM SESSIONS)

B.Sc. NEURO ELECTRO PHYSIOLOGY
SECOND YEAR – (Regulation from 2018-2019)
PAPER II – EVOKED POTENTIALS AND CLINICAL NEUROLOGY
Q.P. Code: 802532

Time: Three Hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(3 x 10 = 30)**

1. Enumerate BAEP under the following headings.
   a) Anatomical basis.
   b) Normal BAEP.
   c) Types of wave form recorded.
2. Classify the disorders of muscles mention its signs and symptoms with its clinical correlation.
3. Describe in detail about sterilization and disinfection.

II. Write notes on: **(8 x 5 = 40)**

1. Medial geniculate body.
2. List the differences between the types of gait.
3. Vision impairment.
4. Types of ataxia.
5. Hemiplegia.
6. Sensory abnormalities in face.
7. Differences between stupor and coma.
8. Etiology for bowel and sexual disorders.

III. Short answers on: **(10 x 3 = 30)**

1. Define floppy infant.
2. Herpes simplex virus.
3. Duchenne Muscular Dystrophy (DMD).
4. Anti Epileptic Drugs.
5. Aphasia.
6. Malingering.
7. Types of Immunity.
8. Parkinson’s disease.
9. P100.
10. Myoclonus.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0423] **APRIL 2023** **Sub. Code: 2532**

B.Sc. NEURO ELECTRO PHYSIOLOGY
SECOND YEAR – (Regulation 2018-2019 onwards)
PAPER II – EVOKED POTENTIALS AND CLINICAL NEUROLOGY
Q.P. Code: 802532

Time: Three Hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(3 x 10 = 30)**

1. Describe how to perform a Tibial Somato Sensory Evoked Potential (SSEP), its Waveforms and Clinical Applications.
2. Describe the various Hyperkinetic and Hypokinetic Movement Disorders.
3. Describe the Clinical features and Common investigations used in the Management of Guillain Barre Syndrome.

II. Write notes on: **(8 x 5 = 40)**

1. Clinical features of Motor Neuron Disease.
2. Delirium.
3. Event related potential.
4. Non Convulsive Status Epilepticus.
5. Acute Transverse Myelitis.
6. Juvenile Myoclonic Epilepsy.
7. Transient Ischemic Attack.
8. Bells palsy.

III. Short answers on: **(10 x 3 = 30)**

1. Dengue Virus.
2. Mannitol.
3. Duchenne Muscular Dystrophy.
4. Sensorineural hearing loss.
5. Hydrocephalus.
6. Periodic Paralysis.
7. Cervical Spondylosis.
8. Autoimmune Encephalitis.
9. Hepatic Encephalopathy.
10. Vitamin B12 Deficiency.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1123] **NOVEMBER 2023** **Sub. Code: 2532**

B.Sc. NEURO ELECTRO PHYSIOLOGY
SECOND YEAR – (Regulation 2018-2019 onwards)
PAPER II – EVOKED POTENTIALS AND CLINICAL NEUROLOGY
Q.P. Code: 802532

Time: Three Hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(3 x 10 = 30)**

1. Enumerate the Neuromuscular Junction. Classify the Neuromuscular Disorders.
2. Discuss in detail about Disorders of Muscle. Write in detail about its Recording Process in Neurology.
3. Define Infection. Mention their prevention measures to be taken as a Health Care Professional.

II. Write notes on: **(8 x 5 = 40)**

1. Floppy infant.
2. Meta thalamus.
3. Visual Impairment.
4. List the complications of Status Epilepticus.
5. Types of Seizures.
6. Movement Disorders.
7. Mention the different types of Gaits in Neurological disorders.
8. Etiology for Bowel and Sexual disorder.

III. Short answers on: **(10 x 3 = 30)**

1. Episodic Impairment of Consciousness.
2. Define Cranial Pain.
3. List any two disorders of Brain stem.
4. List any two Sedative drugs.
5. Drugs used in Mental illness.
6. Define Delirium.
7. Principles behind Coma.
8. Etiology for Distal weakness.
9. Air Bone Disease.
10. Trigeminal Neuralgia.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0424] **APRIL 2024** **Sub. Code: 2532**

B.Sc. NEURO ELECTRO PHYSIOLOGY
SECOND YEAR – (Regulation 2018-2019 onwards)
PAPER II – EVOKED POTENTIALS AND CLINICAL NEUROLOGY
Q.P. Code: 802532

Time: Three Hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(3 x 10 = 30)**

1. Enumerate Neurological Disorders. Mention the Anatomical approaches in Neurology.
2. Describe the Anatomical basis of BAEP. Mention the techniques used in recording BAEP.
3. Describe in Detail about the Routes of Drug Administration.

II. Write notes on: **(8 x 5 = 40)**

1. Types of Vision Disorders.
2. Paraplegia.
3. Sensory Abnormalities in Lower Limb.
4. Neurological causes of Urinary Bladder Dysfunction.
5. Epilepsy.
6. Memory Impairment.
7. Recording and Clinical Applications of VEP.
8. Morphology and Physiology of Bacteria.

III. Short answers on: **(10 x 3 = 30)**

1. Mention any two drugs used as CNS stimulants.
2. List the Mediations used in Coagulation disorders.
3. Etiology of Water Bone Diseases.
4. Nosocomial Infections.
5. Medullary Syndrome.
6. Vertigo.
7. Neurosyphilis.
8. Apraxia.
9. Divisions of Trigeminal nerve.
10. Averaging evoked potentials.

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