



**GOVERNMENT OF KERALA
DIRECTORATE OF MEDICAL EDUCATION
DIPLOMA IN NEURO TECHNOLOGY COURSE REGULAR EXAMINATION
MAY 2023**

Time:2 hrs.

DNT-F-I-MAY-2023
Max. Marks. 50

PAPER -I

BASIC SCIENCES

I. Essay

Describe the origin, course and supply of facial nerve, and write in detail about electrodiagnosis of Blink reflex in facial palsy.

(10)

II. Write short notes on

(5x5=25)

- a. Circle of Willis
- b. Spinal Cord
- c. Vestibulocochlear nerve
- d. Pyramidal tract
- e. Action potential

III. Write briefly on-

(3x4=12)

- a. Wallerian degeneration
- b. Visual pathway
- c. Cauda equina

IV. Fill in the blanks

(3x1=3)

- a. Palmar interossei are supplied by nerve
- b. Sensory supply of 1st interdigital space of foot is by nerve.
- c. Motor supply of tongue muscles is by nerve.

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PAPER -II

COMMON DISEASE OF THE NERVOUS SYSTEM

- I. **Essay**
What are the different types of Neuromuscular junction disorder. Write in detail about clinical manifestations of myasthenia gravis and management. (10)
- II. **Write shrot notes :** (5x5=25)
- a. Narcolepsy
 - b. Frontal lobe epilepsy
 - c. Klumpke's paralysis
 - d. NMO (Neuro Myelitis optica)
 - e. GBS (Guillain-Barre syndrome)
- III. **Write briefly about** (3x4=12)
- a. Metabolic encephalopathy
 - b. Carpel tunnel syndrome
 - c. Sciatic nerve palsy
- IV. **Fill in the Blanks** (3x1= 3)
- a. Expand AMAN
 - b. BERA is related to nerve
 - c. Defective closure of eye is due to disease of nerve.

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PAPER –III
NEUROTECHNOLOGY – I
(Draw diagrams wherever necessary)

- I. **Essay**
Describe the normal EEG waveforms (10)
- II. **Write short notes on :** (5x5=25)
- EEG in brain death
 - EEG in focal epilepsy
 - Periodic complexes in EEG
 - How do you eliminate EEG artefacts
 - Polysomnography
- III. **Write briefly on / Explain** (3x4=12)
- BERA
 - Breach rhythm
 - BECTS
- IV. **Fill in the blanks** (3x1=3)
- Hz spike wave discharges are seen in EEG in Typical Absence Seizures.
 - Normal upper limit of P100 latency pattern VEP is
 - is the largest wave form in healthy human EEG.



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DNT-F-IV-MAY-2023

Time: 2hrs.

PAPER -IV

Max. Marks. 50

**NEURO TECHNOLOGY -II
(Draw diagrams wherever necessary)**

- I. Essay**
Analysis of EMG waveforms (10)
- II. Write short notes on:** (5x5=25)
- a. RNS
 - b. F wave
 - c. NCS in ulnar neuropathy
 - d. Artifacts and technical factors in NCS
 - e. SSR
- III. Write briefly on/ Explain** (3x4=12)
- a. NCS in demyelinating neuropathy
 - b. Median ulnar internal comparison studies
 - c. NCS in foot drop
- IV. Fill in the blanks:** (3x1=3)
- a. is the electrical correlate of ankle jerk
 - b. Early recruitment in EMG is seen in.....
 - c. The amplitude of end plate potential above threshold needed to generate an action potential is called.....
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