



**GOVERNMENT OF KERALA  
DIRECTORATE OF MEDICAL EDUCATION  
DIPLOMA IN NEURO TECHNOLOGY COURSE  
REGULAR & SUPPLEMENTARY EXAMINATION APRIL 2024  
DNT-F-I-APR-2024**

Time:2 hrs.

Max. Marks. 50

**PAPER -I**

**BASIC SCIENCES**

I. Essay

Describe the origin, course and supply of ulnar nerve and write in detail about electrodiagnosis of median claw hand . (10)

II. Write short notes on (5x5=25)

- a. Optic nerve
- b. Dorsal column
- c. Blood supply of brain
- d. Basal ganglia
- e. Auditory pathway

III. Write briefly on- (3x4=12)

- a. Sciatic nerve
- b. Ventricles
- c. Refractory period

IV. Fill in the blanks (3x1=3)

- a. Quadriceps muscle is supplied by ..... nerve
- b. Spinal cord ends at ..... vertebral level
- c. Sensory supply of posterior 1/3 of tongue is by ..... nerve.

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DNT-F-II-APR-2024**

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**PAPER -II**

**COMMON DISEASE OF THE NERVOUS SYSTEM**

- I. **Essay**  
What are the different types of stroke. Describe in detail about clinical manifestation and management. (10)
- II. **Write shrot notes :** (5x5=25)
- a. Juvenile myoclonic epilepsy
  - b. REM sleep disorders
  - c. Erb's palsy
  - d. MFS (Miller Fischer Syndrome)
  - e. Diabetic peripheral neuropathy
- III. **Write briefly about** (3x4=12)
- a. Bell's palsy
  - b. LEMS
  - c. Meralgia Paraesthetica
- IV. **Fill in the Blanks** (3x1= 3)
- a. Myasthenia gravis is an ..... neuromuscular junction disorder
  - b. 3 per second spike and wave is characterestic of ..... seizure
  - c. .... electrophysiological laboratory investigation is done for evaluation of obstructive sleep apnoea.

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**DNT-F-III-APR-2024**

Time: 2hrs.

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

- I. **Essay**  
Describe the localisation and characteristics of the waveform in epilepsies  
(10)
- II. **Write short notes on :** (5x5=25)
- a. EEG artifacts
  - b. EEG in sleep
  - c. VEEG
  - d. Wicket waves & BSSS
  - e. Intraoperative monitoring
- III. **Write briefly on / Explain** (3x4=12)
- a. VEP
  - b. Preparation for EEG
  - c. Activation techniques in EEG
- IV. **Fill in the blanks** (3x1=3)
- a. Short interval periodic complexes are seen in .....
  - b. EEG was invented by .....
  - c. The frequency of theta rhythm is ..... Hz
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PAPER -IV

Max. Marks. 50

**NEUROTECHNOLOGY -II  
(Draw diagrams wherever necessary)**

- I. Essay**  
Repetitive Nerve Stimulation (10)
- II. Write short notes on:** (5x5=25)
- a. EMG in muscle disease
  - b. H reflex
  - c. NCS in carpal tunnel syndrome
  - d. Spontaneous activity in EMG
  - e. SFEMG
- III. Write briefly on/ Explain** (3x4=12)
- a. Sensory conduction study
  - b. NCS in axonal neuropathy
  - c. Conduction block
- IV. Fill in the blanks:** (3x1=3)
- a. The normal F wave latency for median nerve is .....
  - b. End plate spike has an initial ..... deflection
  - c. .... has the highest firing rate in spontaneous EMG activity

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