

August, 2015

STATE MEDICAL FACULTY OF WEST BENGAL

**Preliminary Examinations
for Diploma in Neuro Electro Physiology : DNEP Course**

**Paper – I
Neuro-Anatomy, Neuro-Physiology, Neuro Pathology**

Time : 3 Hours

Full Marks : 80

*Question 1 is Compulsory.
Answer any Two from Question No. 2 to 5 and any Four from Question No. 6*

Q-1) Answer the following MCQ. Select the most appropriate answer:

10x1 = 10

- i) H reflex is recorded with:
a) Supra-maximal stimulation c) Sub-maximal stimulation
b) Normal stimulation d) All of the above
- ii) Midbrain has following cranial nerve nuclei:
a) 4th cranial nerve c) 2nd cranial nerve
b) 5th cranial nerve d) 6th cranial nerve
- iii) Fasciculation is seen in:
a) Anterior horn cell disease c) Peripheral nerve disease
b) Radiculopathy d) All of the above
- iv) Erb's palsy is seen in involvement of Brachial plexus:
a) Lower cord c) Lateral cord
b) Upper cord d) Medial cord
- v) The root value of Ulnar nerve is:
a) C₅C₆ c) C₇C₈
b) C₆C₇ d) C₈T₁
- vi) Low cut filter setting in motor nerve conduction is:
a) 2-5 c) 1-2
b) 5-10 d) 10-15
- vii) Nerve impulse causes an ingress of:
a) Ca⁺⁺ ion c) K⁺ ion
b) Na⁺ ion d) None of the above
- viii) Diameter of electrode used is:
a) 1 mm c) 0.5 mm
b) 1.5 mm d) 2 mm
- ix) Deltoid muscle is supplied by:
a) Radial nerve c) Musculo-cutaneous nerve
b) Axillary nerve d) Supra-scapular nerve
- x) Ulnar nerve supplies which of the following muscle?
a) Abductor digiti minimi c) Flexor carpi ulnaris
b) Flexor digiti minimi d) All of the above

Contd.....P2/

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**Paper – I
Neuro-Anatomy, Neuro-Physiology, Neuro Pathology**

Answer any Two from Question No. 2 to 5 and any Four from Question No. 6

2x20 = 40

- Q2. Discuss the course of Sciatic and the sites of lesion in foot drop.
20
- Q3. What is myopathy? Discuss electro-physiological and pathological changes of myopathies.
20
- Q4. Discuss normal EEG in adults with normal variants.
5+15 = 20
- Q5. Discuss the different parts of EEG machine and function of each part.
20
- Q6. Write short notes on (**Any Four**):- **4 x 7½ = 30**
- a) Alpha rhythm in EEG
 - b) K complex in EEG
 - c) Atrophy & Hypertrophy
 - d) Periodic lateralized epileptiform discharges in EEG
 - e) F wave in NCV
 - f) 10-20 System in EEG recoding.

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**Paper – II
Clinical Aspects, Technical Aspects**

Time – 3 hours

Full Marks – 80

*Question 1 is Compulsory.
Answer any Two from Question No. 2 to 5 and any Four from Question No. 6*

Q-1) Answer the following MCQ. Select the most appropriate answer:

10x1 = 10

- i) First dorsal interossei muscle is supplied by:
a) Median nerve
b) Ulnar nerve
c) Radial nerve
d) Axillary nerve
- ii) Wernicke's area is situated in:
a) Parietal lobe
b) Frontal lobe
c) Temporal lobe
d) All of the above
- iii) Wasting is predominant feature, except:
a) Anterior horn cell disease
b) Muscle disease
c) Peripheral neuropathy
d) Neuromuscular junction disease
- iv) Delta activity is seen in:
a) Stage I sleep
b) Stage II sleep
c) Stage III & IV sleep
d) All of the above
- v) Free nerve ending is related to:
a) Touch
b) Temperature
c) Pain
d) Vibration
- vi) Radial nerve is a branch of:
a) Lateral cord
b) Medial cord
c) Posterior cord
d) None of the above
- vii) Grouped atrophy is seen in:
a) Muscle disease
b) Nerve disease
c) Anterior horn cell disease
d) Neuromuscular junction disease
- viii) Snake bite causes:
a) Muscle disease
b) Neuromuscular disease
c) Nerve disease
d) Anterior horn cell disease
- ix) Acetyl choline is a:
a) Inhibitory neurotransmitter
b) Excitatory neurotransmitter
c) Both
- x) Abducent cranial nerve is a:
a) 2nd cranial nerve
b) 4th cranial nerve
c) 6th cranial nerve
d) 8th cranial nerve

Contd.....P2/

**Preliminary Examinations
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**Paper – II
Clinical Aspects, Technical Aspects**

Answer any Two from Question No. 2 to 5 and any Four from Question No. 6

2x20 = 40

Q2. Discuss the formation, course & branches of ulnar nerve. Write in brief the effect of ulnar nerve injury just above elbow. 20

Q3. Discuss histology of normal muscle, myopathies muscle & neuropathy muscles. 20

Q4. Discuss the physiology of muscle tone and different type of abnormal muscle tone. 20

Q5. What are the different lobes of brain and discuss few functions of each lobe? 20

Q6. Write short notes on (**Any Four**):- **4 x 7½ = 30**

- a) Tarsal tunnel syndrome
- b) Photic stimulation in EEG
- c) Posterior cord of brachial plexus
- d) H-reflex
- e) Different types of spontaneous activity in EMG
- f) Mention in brief different type of artifacts encountered during EEG recording.
