Three Hours

Maximum: 75 marks

## VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM (Deemed to be University) B.Sc(NEURO SCIENCE TECHNOLOGY) DEGREE EXAMINATIONS -September 2021

Second Year

## APPLIED TECHNOLOGY-I & APPLIED TECHNOLOGY-II BASICS OF CLINICAL NEUROPHYSIOLOGY, BASICS OF NERVE CONDUCTIONS, ELECTROMIOGRAPHY AND EVOKED POTENTIALS

Inree	Hours	Maximum: 75 marks	
		SECTION - A	
I. Choose the Best Answer :		(10  x  1 = 10)	
1.	The morphology of the delta w	ave	
	a) biphasic	b) triphasic	
	c) tooth shaped appearance	d) sharp spikes	
2.	The frequency of notch filter		
	a) 60 HZ	b) 35-45 HZ	
	c) 75 HZ	d) 45 HZ	
3.	Beta activity is well appreciated in the		
	a) Anterior regions	b) posterior region	
	c) both a & c	d) lateral regions	
4.	Pick the EMG artifact		
	a) Tongue movements	b) swallowing, chewing	
	c) tremor	d) all the above	
5.	The use of sphenoidal electrode	es	
	a) To record activity at the base	e of the brain b) frontal area	
	c) frontotemporal area	d) both a & c	
6.	Which needle is used most common in clinical practice		
	a) single fibre needle	b) macroneedle	
	c) monopolar	d) concentric needle	
7.	Myasthenia gravis is a neurological condition which most commonly affects		
	a) proximal muscles	b) distal muscles	
	c) respiratory muscles	d) ocular muscles	
8.	Muscle in which H – reflex is best elicited in		
	a) Any distal muscles	b) any proximal muscles	
	c) soleus muscle	d) abductor pollicis brevis	
9.	Needle which is used in assessing large group of muscles		
	a) Monopolar	b) concentric needle	
	c) macro needle	d) none of the above	
10.	Name the IV waveform seen in BAER		
	a) Inferior colliculi	b) vestibulocochlear nerve	
	c) superior colliculi	d) lateral leminscus	

II. Wr	(5 x 5 = 25)	
11.	Electrode Paste	
12.	Amplifiers	
13.	Simple Circuits	
14.	Types of electrodes	
15.	Electrode Identification	
16.	Short note on Rheobase and Chronaxie	
17.	What are fasciculation, fibrillation and action potential	
III. W	(2 x 10 = 20)	
18.	Explain about the activation procedure used in EEG	
19.	Short notes on EEG montages	
20.	Explain video EEG	
21.	Explain about Auditory Evoked Potentials	
IV. W	$(1 \times 20 = 20)$	
22.	Explain EEG procedure: pre procedure, procedure, post procedure	
23.	Explain in detail about Principles of Electromyography	

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