## MEDICAL ELECTRONICS ASSIGNMENT 5 - ANSWER KEY

1.	Which electrode is known as a limb electrode?	1 /1 pt
	● Metal Plate ✓	Auto-graded
	Metal Disk	
	Flexible	
	Suction cup	
2.	Which electrode is also known as the chest electrode?	1 /1 pt
	Metal Plate	Auto-graded
	Metal Disk	
	Floating	
	<ul><li>Suction cup</li></ul>	
3.	electrode can be used for ECG, EEG, EMG recording.  Metal Plate	1 /1 pt Auto-graded
	<ul><li>Disposable</li></ul>	
	Flexible	
	Suction cup	
4.	The electrode that is used frequently in electromyography is	1 /1 pt Auto-graded
	Skin surface electrode	
	Micro electrode	
	Needle electrode	
	All the above	

5.	In which electrode, the lead wire is soldered to the back of the electrode.	1 /1 pt Auto-graded
	Metal Plate	
	Metal Disk	
	Flexible	
	Suction cup	
6.	Which electrode does not need any skilled technicians?	1 /1 pt Auto-graded
	Disposable foam-pad electrode	
	metal disk electrode	
	Metal plate electrode	
	Flexible electrode	
7.	How many reactions take place when an electrode is placed in an electrolyte	1 /1 pt Auto-graded
	<b>●</b> 2 ✓	
	_3	
	<u>4</u>	
8.	The oxidation reaction causes of an electrons and the reduction reaction causes of an electrons	2 / 2 pts Auto-graded
	● Loss, Gain	
	Gain, Loss	
	Loss, Loss	
	Gain, Gain	

9.	In reaction, electrons are released and in	2 / 2 pts
	reaction electrons are gained.	Auto-graded
	Oxidation, Reduction	
	Reduction, Oxidation	
	Oxidation, Oxidation	
	Reduction, Reduction	
10	. The most commonly used electrode is	1 / 1 pt Auto-graded
	● Ag/AgCl ✓	riate graded
	Ag	
	Au/AgCl	
	Stainless steel	
11	. A layer of transparent gel is applied in between electrode and electrolyte to	1 / 1 pt Auto-graded
	Maintain good contact between electrode and the skin	
	To increase the contact impedance	
	to reduce artifact	
12	The other name of half-cell potential is known as	1 / 1 pt Auto-graded
	membrane potential	
	Electrode potential	
	Resting potential	
	Action potential	

13. Which electrode is manufactured by applying a hear small area of glass tubing and pulling the glass whe gets soft.	
macroelectrode	
metal microelectrode	
non-metallic microelectrode	✓
needle electrode	
14. Metallic microelectrode have impedance compared to surface electrodes	1 /1 pt Auto-graded
Low	
Equal	
High	
Very high	✓
15. Which electrode is used to study the electrical activi a single cell	ty of 1 / 1 pt Auto-graded
<ul><li>microelectrode</li><li>surface electrode</li></ul>	<u> </u>
needle electrode	
16. Instrument used for recording electrical activities associated with heart is known as	1 /1 pt Auto-graded
Electrocardiogram	
Echocardiograph	
<ul><li>Electrocardiograph</li></ul>	✓
magnetocardiograph	

17.	Limb surface electrodes are made of	1 /1 pt
	● German silver ✓	Auto-graded
	Copper	
	Gold	
	Platinum	
18.	Which surface electrode produces less artefacts?	1 /1 pt
	Suction cup	Auto-graded
	Metal disk	
	Flexible	
	Floating	
19.	In which surface electrode, the electrode does not come in direct contact with the skin?  Suction cup	1 /1 pt Auto-graded
	Metal disk	
	Flexible	
	Floating	
20.	electrode is designed for new born babies  Suction cup  Metal disk  Flexible	1 /1 pt Auto-graded
L	Floating	
	<u> </u>	

21.	electrode is used to pick a signal from a single	1 / 1 pt
	cell.	Auto-graded
	skin surface	
	macro	
	● micro ✓	
	needle	
22.	electrode is used to pick a signal from a nerve.	1 /1 pt
	Skin Surface	Auto-graded
	macro	
	micro	
	needle	
23.	In the electrode-electrolyte interface, complete this	1 /1 pt
	equation, A^n-<=>	Auto-graded
	A+me-	
	● A+ne-	
	C+ne-	
	ne-	