**9.1** (3 pt)



## **Electrolysis in Organic Synthesis - Answer Sheet**

6% of total								
Question	9.1	9.2	9.3	9.4	9.5	9.6	9.7	Total
Points	3	3	2	5	5	2	9	29
Score								

<u>Provide</u> the structural fo	rmulae of <b>A</b> , <b>B</b> , and <b>C</b> .		
A	В	C	
	\(\mathcal{O}\)'		
<b>9.2</b> (3 pt) Formulate the oxidative Reductive half reaction:	and reductive half reactio	ns and the full redox re	action.
Oxidative half reaction:			
Full redox reaction:			

**9.3**  $(2~{\rm pt})$  **Provide** the intermediates in the mechanism for the oxidative decarboxylation and formation of the product.

Translation:

1:

2:

## Theory





9.4 $(5~\mathrm{pt})$ Provide the structures of D-H.	
D	E
F	G
H	

## Theory





Provide the structures for both products K and	L. Indicate now the two products are related.
□ Epimer □ Diastereomer □ Enantiomer □ Constitutional Isomer	
9.6 (2 pt) Provide the structure of N and O.	
N	

## Theory



<b>P</b> , <b>Q</b> , <b>R</b> , and <b>S</b> . Indicating stereochemistry is not re
Q
S