Part 1: Data and results. Complete the given tables.

1. Write the balanced chemical reaction for the preparation of soap, the saponification reaction.

Data soap

Preparation of Soap. Include appropriate significant figures and units.

_	Preparation of Soap. Include appropriate significant figures and units.					
1	Mass of Deionized water	36 9				
2	Mass of Sodium hydroxide					
3	Mass of Lard	12.39				
4	Mass of Sunflower oil	45 9				
5	Mass of Castor oil	10.10 5				
	Mass of Beeswax	8.895				
	Total Mass of Ingredients in Soap {L1}+{L2}+{L3}+{L4}+{L5}+{L6}	150.69				
1	Mass of Cured Soap					
1	Color of Cured Soap	150-1-9 132.48 g				
	Physical State of Cured Soap (solid, liquid, or gas)	Solid sold				

Test of Effectiveness of Surfactants in Hard and Soft Water

Surfactant	Amount of Foaming of Unadulterated Surfactant	Amount of Foaming following addition of CaCl ₂ (hard water)	Amount of Foaming following addition of
Dove	least	Leust	Na ₃ PO ₄ (soft water)
Trish spring	Second	Most	West
Your Prepared Soap	Most	Most	Lend Most

pH Test

Surfactant	Color of pHydrion Paper	pH Value	Classif
Dove	Blue /Purple	Production sky	Classification (acidic, basic, or neutral)
list Spring	Blue/Purple	SAME TO SAME	riting to MAAC rules. Octad
Your Prepared Soap	" "		
Deionized Water	FI II		

Complete next page as well.

Part 1: Data and results.

Preparation of Lotion. Include appropriate

	Preparation of Lotion. Inclu Mass of Deionized water		41.615
		Swinod a	9.009
2	Mass of Sunflower oil		The same of the sa
3	Mass of Glycerin	43.22	0.619
sigi	Mass of Stearic acid	41.23	3.019
1	CARA THE STATE AND ADDRESS OF THE STATE OF T	62.43	6.23
5	Mass of Emulsifying wax	at. The T	0.375
6	Mass of Germaben II	na timota	the state of states and galacters.
7	Total Mass of Ingredients in Lotion	rae (1 egra e), becurite	52.805
mil	(I 1)+{L2}+{L3}+{L4}+(L4)		62.153
8	Mass of Prepared Lotion and Bottle		
9	Mass of Empty Bottle		9.353
	Mass of Prepared Lotion {L8}-{L9}		The second secon
10	Wass of French Lotion	OBOL MES	to Siph page 28st of Applies Applies 20, not and
11	Color of Prepared Lotion		
12	Physical State of Prepared Lotion (solid, liquid, or gas)		a kind ta

Conductivity tests on different lotions and deionized water.

		Conductivity	tests on differe	ent lotions and del	Electrolyte	Emulsion Type
	Item	Red LED	Green LED	Degree of Conductivity	Strength	OR CHOICE SHEET
13	Jergens®	1	X	+ were	Data lotion	
14	Suave®	1	X	+ wear		
15	Vaseline®	/	X	tt moderate		
16	Deionized Water	1	X	WEAR		
17	Your Lotion	arbun er		ts or amine acid. T		The second second

pH of different lotions, deionized water, and your skin.

	pH of	different lotions, deioniz		Classification
L	Item	Color of pHydrion Paper	pH Value	(acidic, basic, or neutral
18	Jergens®	Yellow	5	pH < 7 is acidic
19	Suave®	yenow	5	pH > 7 is basic
20	Vaseline®	yellow	5	ex: pH = 9 is basic
21	Deionized Water	Yellow/ green	5.5	
22	Your Skin	Sreen	6	
23	Your Prepared Lotion	balls out to be a	us to focus sc	

Complete the next page as well.