Study Guide for Lab Exam 2017

Basic Lab Report Requirements:

-NO PERSONAL PRONOUNS

-Materials should be organized (list or columns)

Procedure

Results

-Number the steps of the procedure

-Be specific in the procedure

-Procedure is written in present tense and starts with a verb

-Record results and repeat steps (where needed)

-NO PERSONAL PRONOUNS

Data needs to be presented in an organized, neat manner (use a table with a title)

-Restate your aim and summarize test results in the conclusion

-NO PERSONAL PRONOUNS

*2 sources of error (that are not silly mistakes: mislabelling or miscalculating)

Lab Tests:

You should KNOW the information in the table as it will not be provided to you

in the final (we have done these tests several times)

in the final (we have done these tests several times)				
Test	Method	Used For	Possible Results	
Conductivity	-The electrodes of a	-Detecting electrolytes,	-Light flashes quickly if conducts	
-	conductivity meter are	minerals and/or salts in		
	placed into 2 drops of the	a liquids	-Light flashes	
	unknown		slowly	
			-No light	
Cobalt	-A piece of cobalt	-Detecting the presence	-Paper turns pink (1+ water	
Chloride	chloride paper is placed	of water		
(CCP)	in one drop of the	-Change in colour	-Paper stays dark	
	unknown	means water is present	blue	
	-Record any change in			
	colour the is immediate			
pH	-Blue litmus paper is	-If the blue paper turns	-BLP	
(RLP and	placed in the well of	red it means it is acidic	-Turns red if acid	
BLP)	plate and one drop of the	-If the red paper turns	- Stays blue	
	unknown is dropped on	blue it means it is basic		
Leave T	top: acids are detected	-If neither changes, the	-RLP	
	-Red litmus paper is	pH is close to 6-7,	- Turns blue if base	
	placed in the well of	which is neutral	- Stays red	
	plate and one drop of the	-Both paper tests need		
	unknown is dropped on	to be done in order to		
	top: bases are detected	determine the pH		
Protein	-Make a control by	-Detecting the presence	-Stays blue of protein	
Presence	placing 3 drops of each	of protein		
Make a	NaCO ₃ and CuSO ₄	D lair sie	-Turns violet/dark	
controlx	-Then repeat this and add	-Proteinuria	blue/green/ around	
2011	6 drops of the unknown	-Protein in	the edges	
	-Wait at least 2 min to		(noticeable color	
	observe results	blood/urine.	change must occur)	

Glucose	-A glucose strip is placed	-Detecting the presence	-Turns green (glocosc)
Presence	in the in the well with	of carbohydrates	
*	tweezers and one drop of	(colour change)	-Stays yellow (& glucose)
7	the unknown is added	Glucose/Sugar	
	-wait 30 seconds for	Glows Jougan	
	observations	16	
Salt	-Conductivity meter	-Detecting presences of	-More than 2 lights
presence	electrodes are placed in	electrolytes	will turn on from
	the unknown		the conductivity
			meter
			-0 or 1 light goes on
Starch	-Lugol's Solution	-Detecting the presence	(-Unknown turns (starch)
presence	-place 5 drops of	of starch and	green/black/brown
	Unknown A to a clean,	determining if amylase	
	dry well of the spot plate	(saliva) will have an	-Turned (no
	-Add 2 drops of Lugol's	effect on the substance	yellow/orange starch)
2	solution to the well		
1.0	containing the unknown		
	using the pipette		
	-Stir the solution with a	v	
	clean stirring rod	8	
	-Observe if unknown		
	turns green/black and		
L.	record observations.		
Fat Presence	-Add 20 drops of	- Emulsion with	-Unknown turns
	Unknown A to the "A"	Ethanol	clumps, is cloudy
	test tube		emulsifies
	-Using dropper bottle,		
	add 6 drops of ethanol to		-Stays clear
	the "A" test tube		(No tat)
	-Place thumb over mouth		-Stays cloudy
73	of test tube and shake		
	vigorously side-to-side		
-	-Observe for an emulsion		
	(white cloudy		
	appearance)		