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Authority ND 88 3078

UNITED STATES FORCES IN THE PHILIPPINES  
 SEVENTH MILITARY DISTRICT  
 CPW-V

OFFICIAL LOSS LEAF CASH BOOK

*Vol # 47*

*DOGMA AT-LARGE* In the field *Rafael C. Zayas Jr.* 2nd Lt. Inf.  
 (Organization) (Station) Name, rank, & Designation of Off.

DATE	PARTICULARS & AUTHORITY	DR	CR	SIG OF PAYER
31 Dec. '44	Payment made to Lt. Rafael G. Zayas Jr. the sum of one hundred pesos (P100.00) as a partial salary for the month of Dec. '44 at P100.00 a month.....		P 100.00	<i>Rafael G. Zayas Jr.</i>
" "	Payment made to Corporal Salvador Te Malala the sum of twenty pesos (P20.00) as a partial salary for the month of Dec. '44 at P20.00 a month....		P 20.00	<i>S. Te Malala</i>
" "	Payment made to Pvt. Apolonia Villarain the sum of fifteen pesos (P15.00) as a partial payment salary for the month of Dec. '44 at P15.00 a month.....		P 15.00	<i>A. Villarain</i>
" "	Payment made to Genaro Gaudite the sum of thirty pesos (P30.00) as full salary for the month of Dec. '44 at P30.00 a month as a civilian employee.....	X	P 30.00	<i>Genaro Gaudite</i>
" "	Payment made to Severina Servantes the sum of twenty pesos (P20.00) as full salary for the month of Dec. '44 at P20.00 a month as a civilian employee.....	X	P 20.00	<i>Severina Servantes</i>
	TOTAL		P 185.00	

*Cancel # 13*

CERTIFICATE

I hereby certify in my official oath to the correctness of the above the same having been incurred with my knowledge and that the payment were justified and necessary in the service. I hereby assume full responsibility for the balance of \_\_\_\_\_ pesos (P \_\_\_\_\_) which are in my personal possession.

APPROVED BY:

*[Signature]*

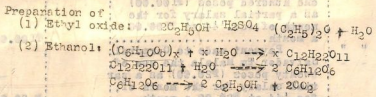
*[Signature]*  
 RAFAEL C. ZAYAS JR.  
 2nd Lt. Inf.  
 BQM AGENT AT-LARGE

UNCLASSIFIED AND NOT BE DISCLOSED OUTSIDE THE BUREAU OF CHEMISTRY  
V-200

44. GIVE THE CHEMICAL DIFFERENCE BETWEEN PHENOL AND ALCOHOL.

Phenol, a hydroxyl derivative of benzene, is acidic and reacts with bases to form phenolates. Alcohol, a hydroxyl derivative of ethane, is neutral or feebly basic and forms alcoholates only with metallic sodium and potassium.

45. DESCRIBE AND ILLUSTRATE BY EQUATIONS THE PREPARATION OF (1) ETHYL OXIDE, (2) ETHANOL.



46. CLASSIFY THE CARBOHYDRATES AND GIVE THE CHARACTERISTICS OF EACH CLASS.

- (1) Monosaccharides - no further hydrolysis with dilute acids; simple sugars.
- (2) Disaccharides - yield two monosaccharides upon hydrolysis.
- (3) Trisaccharides - yield three monosaccharides upon hydrolysis.
- (4) Polysaccharides - yield more than three monosaccharides upon hydrolysis.

47. NAME THE HYDROLYTIC PRODUCTS OF (1) SUCROSE (2) MALTOSE (3) LACTOSE (4) STARCH (5) RAFFINOSE.

- (1) Sucrose  $\rightarrow$  glucose and fructose.
- (2) Maltose  $\rightarrow$  glucose and glucose.
- (3) Lactose  $\rightarrow$  glucose and galactose.
- (4) Starch  $\rightarrow$  maltose  $\rightarrow$  glucose and glucose.
- (5) Raffinose  $\rightarrow$  fructose, glucose and galactose.

*Sp. L. 10/2/21*

UNITED STATES FORCES IN THE PHILIPPINES  
 SEVENTH MILITARY DISTRICT  
 CEW-V

*Vof 42*

OFFICIAL LOOSE LEAF CASH BOOK

DAMA AT-LARGE		In the Field		Rafael C. Zayas Jr. 2nd Lt. Inf.	
(Organization)		(Station)		(Name, Rank, & Designation of)	
DATE	PARTICULARS AND AUTHORITY	DEB	C.R.	SIG. OF PAYEE	
Nov. '44	Payment made to Lt. Rafael S. Zayas Jr. the sum of one hundred pesos (\$100.00) as a partial salary for the month of Nov. '44 at \$100.00 a month.....				<i>Rafael S. Zayas Jr.</i>
" "	Payment made to Corporal Salvador T. Malala the sum of twenty pesos (\$20.00) as a partial salary for the month of Nov. '44 at \$20.00 a month.....				<i>S. Malala</i>
" "	Payment made to Pvt. Apolonio Villarain the sum of fifteen pesos (\$15.00) as a partial salary for the month of Nov. '44 at \$15.00 a month.....				<i>A. Villarain</i>
" "	Payment made to Genaro Bautista the sum of thirty pesos (\$30.00) as <del>full-time</del> salary for the month of Nov. '44 at \$30.00 a month as a civilian employee.....			X	<i>Genaro Bautista</i>
" "	Payment made to Severino Servantes the sum of twenty pesos (\$20.00) as full salary <del>for the month of</del> Nov. '44 at \$20.00 a month as a civilian employee.....			X	<i>Severino</i>
	TOTAL				\$ 185.00

CERTIFICATE

I hereby certify in my official oath to the correctness of the above the same having been incurred with my knowledge and that the payment were justified and ~~necessary~~ necessary in the service. I hereby assume full responsibility for the balance of \_\_\_\_\_ pesos (\$ \_\_\_\_\_) which are in my personal possession.

APPROVED BY:

*[Handwritten Signature]*  
 RAFAEL C. ZAYAS JR.  
 2nd Lt. Inf.  
 DAMA AT-LARGE

*Handwritten notes in red ink:*  
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 20  
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AMERICAN CHEMICAL SOCIETY  
FOUNDED 1876  
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109. HOW WOULD YOU PURIFY THE COMMERCIAL ETHER? 26

Commercial ether may be purified by mixing it with lime and then distilling off the ether fraction. The lime holds the water and other impurities that may be present.

110. WHAT ARE CARBOHYDRATES?

Carbohydrates are oxygenated hydrocarbons in which the oxygen and hydrogen atoms bear the same ratio as in water.

111. Give the pharmacopoeial description of glucose.

Glucose is a colorless or yellowish, thick, syrupy liquid; very soluble in water but sparingly soluble in alcohol; and consisting chiefly of dextrose, maltose, dextrine and water.

112. DESCRIBE THE PREPARATION OF SAME FROM CANE SUGAR BY HYDROLYSIS.

Glucose is prepared from cane sugar by heating the latter with dilute hydrochloric acid to invert the sugar. The syrup formed is a mixture of dextrose and fructose essentially.

113. GLUCOSE PREPARED THIS WAY CONTAINS DEXTROSE AND LEULOSE; HOW COULD YOU SEPARATE THEM FROM EACH OTHER?

Dextrose may be prepared from the mixture by crystallizing it. Fructose is more difficultly crystallizable. It may be obtained by the preparation of the calcium derivative. The syrup diluted with water is cooled to 0° by addition of ice and calcium hydroxide is slowly added with stirring. The calcium and fructose compound is precipitated, while the dextrose and calcium combination product is in solution. The fructose-calcium compound is collected, washed with cold water and decomposed slowly by CO<sub>2</sub>.

After crystallizing the dextrose, the mother liquor may be treated in the same manner to obtain the fructose.

*Handwritten signature:* J. M. ...

UNITED STATES FORCES IN THE PHILIPPINES  
 34th MILITARY DISTRICT  
 C-1

10/47

REGULAR ROLES AND RASH BOOK

DRAMA AT-LARGE In the Field Rafael C. Zayas Jr. and H. Inf.  
 (Organization) (Station) Name, Rank, & Designation of Cf.

DATE	PARTICULARS & AUTHORITY	AMOUNT	U.S.	SIG. OF PAYEE
24 Oct. '44	Payment made to Lt. Rafael C. Zayas Jr. the sum of one hundred pesos (100.00) as a partial salary for the month of Oct. '44 at \$100.00 a month.	100.00		<i>Rafael C. Zayas Jr.</i>
" "	Payment made to Sgt. Servando Tagaysay the sum of twenty five pesos (\$25.00) as a partial salary for the month of Oct. '44 at \$25.00 a month.	25.00		
" "	Payment made to Corp. Salvador M. Malala the sum of twenty pesos (\$20.00) as a partial salary for the month of Oct. '44 at \$20.00 a month.	20.00		<i>S. Malala</i>
" "	Payment made to Pvt. Apolonio Villarain the sum of fifteen pesos (\$15.00) as a partial salary for the month of Oct. '44 at \$15.00 a month.	15.00		<i>A. Villarain</i>
" "	Payment made to Senora Guadalupe the sum of thirty pesos (\$30.00) as full salary for the month of Oct. '44 at \$30.00 a month as a civilian employee.	30.00		<i>Guadalupe</i>
" "	Payment made to Severina Servantes the sum of twenty pesos (\$20.00) as full salary for the month of Oct. '44 at \$20.00 a month as a civilian employee.	20.00		<i>S. Servantes</i>
	<b>TOTAL</b>	<b>210.00</b>		

I hereby certify in my official oath to the correctness of the above the same having been incurred with my knowledge & that the payments were justified & necessary in the service. I hereby assume full responsibility for the balance of \_\_\_\_\_ pesos (\$\_\_\_\_) which are in my personal possession.

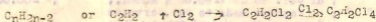
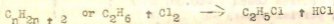
APPROVED BY: *[Signature]*  
 End Lt. Inf.  
 DRAMA AT-LARGE

126. STATE THE DIFFERENCES BETWEEN  $C_nH_{2n} + n$ ,<sup>30</sup>  
 $C_nH_{2n} - 2$ .

$C_nH_{2n} + 2$  is for the saturated hydrocarbons while  $C_nH_{2n-2}$  is the type formula for hydrocarbons with four hydrogen atoms less than the corresponding saturated hydrocarbon.

The first acts by substitution while the second acts by addition due to its unsaturatedness.

127. GIVE SOME CHEMICAL EQUATION PROVING SUCH DIFFERENTIATION.



128. DEFINE: VASELINES; HOW WOULD YOU TURN YELLOW VASELINE TO WHITE VASELINE?

Vaseline is purified semi-solid mixtures of hydrocarbons obtained from petroleum.

By decolorizing yellow vaseline, white vaseline may be obtained.

129. GIVE THE CHEMICAL COMPOSITION OF TARD AND PARAFFIN.

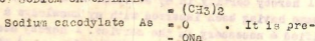
Lard is composed of the glycerides of lauric, myristic, palmitic, stearic, oleic and linoleic acids.

Paraffin consists of solid hydrocarbons obtained from petroleum.

130. HOW WOULD YOU DETECT THE  $H_2O$  IN ABSOLUTE ALCOHOL?

Anhydrous copper sulphate becomes blue if water is present in absolute alcohol.

131. GIVE THE FORMULA, PREPARATION, PROPERTIES AND USE OF SODIUM CACODYLATE.



pared by treating cacodylic acid with sodium hydroxide. It is in white, odorless, deliquescent prisms or granular powder, soluble in water and alcohol, melts at



OFFICE No. -2

UNIT STATES FORCES IN THE PHILIPPINES  
 SEVENTH MILITARY DISTRICT  
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OFFICIAL LOOSE LEAF CASH BOOK

IN THE FIELD RAFAEL C. ZAYCO, Jr. 2nd Lt. INF  
 (Organization) (Station) Name, rank, and Desig. of Off.

DATE	PARTICULARS AND AUTHORITY	D R	C R	SIG. OF PAID
30 June '44	Payment made to Lt. Rafael C. Zayco Jr. as partial salary for the months of Feb., March, & April, 1944 at one hundred pesos (P100.00) a month-----		✓	300.00 <i>W. Zayco Jr</i>
" "	Payment made to Sgt. Servando G. Tagayday as partial for the month of June, 1944 at twenty five pesos (P25.00) a month-----		✓	25.00 <i>S. Tagayday</i>
" "	Payment made to Corp. Salvador M. Malala as partial salary for the month of June, 1944 at twenty pesos (P20.00) a month-----		✓	20.00 <i>S. Malala</i>
" "	Payment made to Pvt. Apolonio Villarria as partial salary for the month of June, 1944 at fifteen pesos (P15.00) a month-----		✓	15.00 <i>Apolonio Villarria</i>
" "	Payment made to Genaro Gaudete a civilian employee as full salary for the month, June 1944 at thirty pesos (P30.00) a month-----		✓	30.00 <i>Genaro Gaudete</i>
" "	Payment made to Severino Cervera, pilot of S/Maymaya as full salary for the month of June, 1944 at twenty pesos (P20.00) a month-----		✓	20.00 <i>S. Cervera</i>
			T O T A L	P 410.00

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I hereby certify in my official oath to the correctness of the above the same having been incurred with my knowledge and that the payments were justified and necessary in the service. I hereby assume full responsibility for the balance of which are in my personal possession.

APPROVED:

*[Signature]*

*[Signature]* 2nd Lt. Inf.  
 Name, rank, & designation of Officer

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Authority ND 88 3078

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The Milk Dist  
Dist on Acct "Zyco"

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Authority *ND 88 3078*