





DEPARTMENT OF PURE & APPLIED CHEMISTRY

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TABLE OF SPECIFICATIONS

Chem 157.1 - Physical Chemistry Laboratory I

2nd Semester AY 2021-2022

Examination: ___ Midterm __ Final __ Long Exam

Date of Examination: June 23, 2022

Content	No. of Meeti ngs	Course Outcome/L earning Outcome (CO/LO)	%	Taxonomy of Objectives						
				Remembering	Understanding	Applying 5.27.29	Analyzing 50.69	Evaluating	Creating	Total Items
				31.03	18.97					
				%	%	%	%	%		
Ideal Gas Law in Food	1	CO1: Explain the theories and principles of physical	10.34	4	1		1			6
Real Gases	1	chemistry behind the experimental procedures involved.	10.34	2	1	2	1			6
Determination of Calorific Value in Food Samples Using Bomb Calorimetry	1	CO2: Apply safety precautions in the laboratory.	15.52	3	2	3	1			9
Determination of Partition Coefficient	1	CO3: Analyze and present experimental data.	12.07	3	1	2	1			7
Distillation of Binary Liquids	1		17.24	3	3	4				10
Steam Distillation	1		8.62	1	2	2				5
Phase Diagram in a Three- Component Liquid System	1		13.79	1		1	6			8
Molar Mass Determination by Freezing Point Depression	1		12.07	1	1	2	2	1		7
Total	8	Λ	100 %	18	11	16	12	1		58

Arrangeme nt	I. 1-11 II. 1-8	I. 12- 17 V. 1-5	III. 1- 15	IV. 1- 12	I. 18		
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Type/s of Test:

Test I

Multiple Choice

Matching Type

Test IV Calculations Test V Essay

Test III

Prepared by:

Modified True or False

MARK RYAN R. TRIPOLE

odified True of False		
Name of Course Instructor /Professor	Signature	Date Signed

Department Instructional Materials Review Committee:

Committee	Name	Signature	Date Signed	
Member:	ATOZ A. VASQUEZ	900	6/23/22	
Member:	MA. ROBELYN A. INSIK	mamen	6 b3/22	
Chairperson	JACOB GLENN F. JANSALIN	fund	6/23/202	
Department Head:	ELIZABETH S. QUEVEDO	Moved	6/23/2022	

	Name	Signature	Date Signed
Verified by:	MA. THERESA P. LORETO Dean, CAS		
Validated by:	NANCY D. ABUNDA Head, OIMD		

Note: A copy of the test paper with answer key shall be attached to the TOS.

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