



TABLE OF SPECIFICATIONS

Chem 159 – Physical Chemistry 3


2nd Semester AY 2021-2022

Examination: ___ Midterm **X** Final

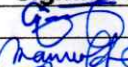
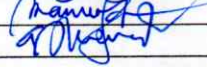
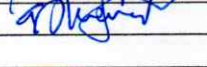
Date of Examination: **June 29, 2022**

Content	No. of Meetings	Course Outcome/ Learning Outcome (CO/LO)	%	Taxonomy of Objectives						Total Items
				Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	
				___%	___%	___%	___%	75%	25%	
Approximate methods and applications to atoms and molecules	6	CO 3: Construct the Hamiltonian operator for one-electron and many-electron atoms	50%					2	1	2
Vibrational and rotational spectroscopy	4	CO 4: Solve problems in atomic and molecular spectroscopy	25%					3		1
Statistical thermodynamics	4	CO 5: Apply the fundamental concepts of statistical thermodynamics to simple systems	25%					4		1
Total			100%					3	1	4
Item Arrangement								2, 3, 4	1	

Type of Test: **Short answers (Problems & Essay)**

Prepared by:	Name of Course Instructor /Professor	Signature	Date Signed
	JACOB GLENN F. JANSALIN		JUNE 27, 2022

Department Instructional Materials Review Committee:

Committee	Name	Signature	Date Signed
Member:	ATOZ A. VASQUEZ		June 27, 2022
Member:	MA. ROBELYN A. INSIK		June 27, 2022
Chairperson:	ELIZABETH S. QUEVEDO		June 27, 2022

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

Note: A copy of the test paper with answer key shall be attached to the TOS for review of the DIMRC. After approval the test paper will be returned to the concerned faculty and will not be attached to the TOS when submitted to the College Dean and OHIMD.

REMINDER:

- The author should not be part of the DIMRC.*
- *If the author is the Department Head, he/she will be replaced by another chairperson from among the senior faculty members.*
- **If the author is the College Dean, the Head of Instructional Materials Development will approve.*
- Follow the next higher supervisor, no same person*
- For the component campuses, if the author is the College Dean, the Director for Academic Affairs will approve.*
- If the author is the Department Head and at the same time the College Dean, the Director for Academic Affairs will be the Chairperson of the DIMRC, and the Chancellor will approve it.*

(3) Distribution of copies: OHIMD, Department, Faculty,