I. (20 pts.) Circle the LETTER of the correct answer in the following multiple choice questions.
A. [4 pts. each] The following 5 multiple choice questions pertain to this statement:

"Some Latvian Las Vegas showgirls who are political refugees in the United States are not people who are traditional practitioners of the Mormon faith."

1. The predicate term is:
   a) Latvian Las Vegas showgirls
   b) political refugees in the United States
   c) traditional practitioners of the Mormon faith
   d) people who are traditional practitioners of the Mormon faith
   e) None of the above

2. The copula is:
   a) who are
   b) are not
   c) are
   d) some
   e) None of the above

3. The quantity is:
   a) some
   b) affirmative
   c) universal
   d) particular
   e) None of the above

4. The quality is:
   a) negative
   b) affirmative
   c) universal
   d) particular
   e) None of the above

5. In the given categorical proposition,
   a) The subject term is distributed and the predicate term is undistributed.
   b) The subject term is undistributed and the predicate term is distributed.
   c) Both the subject term and the predicate term are undistributed.
   d) Both the subject term and the predicate term are distributed.
   e) None of the above.

B. [BONUS — 4 pts. each] Answer the following 5 multiple choice questions.

6. Which of the following categorical propositions is in standard form (as defined in our text)?
   a) He glitters when he walks.
   b) Only the wealthy are members of the Elite Club.
   c) No works of Wagner are musical pieces currently performed in Tel Aviv.
   d) Some misanthropists are not energetic.
   e) All good men are hard-working.

II. (10 pts.) The next 3 questions refer to the following:
For the following statements, obvert the first, convert the second, and contrapose the third. Write your answer on the line provided. Reward class complements, where appropriate, to make the sentence less stilified.

11. Some nabobs of negativism are not persons guilty of income-tax fraud.
   Obverse: Some nabobs of negativism are not persons not guilty of income-tax fraud.
   Converse: Some persons not guilty of income-tax fraud are nabobs of negativism.

12. Some skinny crooners with mediocre voices who were popular in the "forties" are persons with alleged ties to organized crime.
   Obverse: Some persons with alleged ties to organized crime are skinny crooners with mediocre voices who were popular in the "forties.
   Converse: Some skinny crooners with mediocre voices who were popular in the "forties are persons with alleged ties to organized crime.

[Phi 2100 - Test #2 - §3.1 - 3.3; Ch. 4 - F05 ----- Hurley's 9th]...... p. 1/6

[Phi 2100 - Test #2 - §3.1 - 3.3; Ch. 4 - F05 ----- Hurley's 9th]...... p. 2/6
13. All retired Flamenco dancers are persons with severe back problems.

Contrapositive: All persons without severe back problems are persons who are not retired Flamenco dancers.

III. (20 pts. – 5 pts. each) In the following 4 problems, determine whether the argument is unconditionally valid, conditionally valid, or invalid. If the argument is valid, state the law or rule that justifies the conclusion of valid and write “none” in the Fallacy column. If the argument is invalid, name any formal fallacy committed. THERE MUST BE AN ENTRY IN BOTH COLUMNS FOR EACH PROBLEM!

READ THESE EXAMPLES and then box the letters “A” and “B” directly below.

Validity | Fallacy
--- | ---
No log cabins are skyscrapers. Therefore, all log cabins are non-skyscrapers. | VALIDATION | NONE
Some monkeys are not goldfish. Therefore, some goldfish are not monkeys. | INVALIDATION | ILLICIT CONVERSION

NOW DO THESE PROBLEMS

1. It is false that all corrupt politicians are overweight Republicans. Therefore, some corrupt politicians are not overweight Republicans.

2. Some left-handed Croatians are not WWF wrestlers. Therefore, some WWF wrestlers are left-handed Croatians.

3. No veterinarians are graduates of Harvard University. Therefore, no graduates of Harvard University are veterinarians.

4. No CIA operatives are Ordained Catholic Priests. Therefore, it is false that all CIA operatives are Ordained Catholic Priests.

Validity | Fallacy
--- | ---
No C are O. | Valid |
F All C are O. | None

BONUS

8. It is false that no NFL line backers are Rosicrucians. Therefore, all Rosicrucians are NFL line backers.

Validity | Fallacy
--- | ---
F No N are R. | INVALID |
F All R are N. | Illlicit
F All N are R. | Contraries

IV. (10 pts.) Fill-in the blanks in the following 5 problems. The Truth Value of the new statement is T, F, or ? . [T = True, F = False, ? = Cannot be determined].

<table>
<thead>
<tr>
<th>Given statement</th>
<th>Operation</th>
<th>New statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some non-A are not non-B. (T)</td>
<td>contrap.</td>
<td>Some B are not A.</td>
</tr>
<tr>
<td>Some non-A are B. (F)</td>
<td>subalt.</td>
<td>All non-A are B.</td>
</tr>
<tr>
<td>Some non-A are B. (T)</td>
<td>subcontrary</td>
<td>Some non-A are not B.</td>
</tr>
<tr>
<td>All non-A are non-B. (F)</td>
<td>convert</td>
<td>All non-B are non-A.</td>
</tr>
<tr>
<td>Some A are not non-B. (T)</td>
<td>contrap.</td>
<td>All A are non-B.</td>
</tr>
<tr>
<td>Some A are not non-B. (F)</td>
<td>contrap.</td>
<td>No A are non-B.</td>
</tr>
</tbody>
</table>

V (20 pts. – 4 points each) Translate (faithfully) each of the following into Standard Form Categorical Propositions.

1. Only nuclear-powered vehicles are suitable for deep space exploration.

All vehicles suitable for deep space exploration are nuclear-powered vehicles.

2. If an ore isn’t radioactive, then it isn’t pitchblende.

All non-radioactive substances are substances other than pitchblende.

3. Monkeys are found in the jungles of Guatemala.

Some monkeys are animals found in the jungles of Guatemala.
4. She travels where she wants to travel.
   All places where she wants to travel are places where she travels.

5. James Michener wrote only historical novels.
   All books written by James Michener are historical novels.

6. Few professional baseball players reach the major leagues.
   Some professional baseball players are persons who reach the major leagues, and
   some professional baseball players are persons who reach the major leagues.
   All fruits except pineapples ripen after they are picked.
   All non-pineapples are fruits that ripen after they are picked, and no pineapples
   are fruits that ripen after they are picked.
   Lunar eclipses do not occur unless the moon is full.
   All times lunar eclipses occur are times the moon is full.

**BONUS**

5. There are more laws on the books today than ever before, and more crimes are being committed than ever
before. Therefore, to reduce crime we must eliminate the laws.
   False cause — "non causa pro causa".
   The additional laws are not causing crime.

**MORE BONUS**
On the remainder of this page you may write anything that you have learned from Chapters 3 and 4 which
you believe will assist in your long-term Critical Thinking ability.

**VI.** (20 pts. — 5 points each) Identify the informal fallacies. Give a brief explanation for your answer. If
no fallacy is committed, write "no fallacy."

1. "Friedrich Nietzsche's philosophy is not worth the paper it's printed on. Nietzsche was an immoral reprobat
   who went completely insane from syphilis before he died."
   Argument against the person, abusive. + reason

2. "The editors of the Daily Register have accused our company of being one of the city's worst water polluters. But
   the Daily Register is responsible for much more pollution than we are. After all, they own the Western
   Paper Company, and that company discharges tons of chemical residue into the city's river every day."
   Argument against the person, circumstantial. + reason

3. "The position open in the math department should be given to Doug Jones. Doug has eight hungry children
to feed, and his wife desperately needs an operation to save her eyesight."
   Appeal to Pity. + reason

4. "The secretaries have asked us to provide lounge areas where they can spend their coffee breaks. This
request will have to be refused. If we give them lounge areas, next they'll be asking for spas and swimming
pools. Then it will be racquetball courts, tennis courts, and fitness centers. Expenditures for these facilities
will drive us into bankruptcy."
   Slippery Slope. + reason