**LAB SESSIONS – PHIL 1 – WEEK 5**

**EXERCISES**

1. **Answer the Following open question to the best of your possibility. Limit ½ page A4**
2. What is the existential import and why is it important?
3. Describe the two interpretation of the existential import in detail (Aristotle vs Boole) and try to reflect on their epistemological repercussions for science
4. Which interpretation of the existential import is currently accepted? And why?
5. Determine whether the following inference is valid on the modern interpretation of the square of opposition; if the inference is valid, explain why; and if the inference is undetermined, explain why.

🡪 If the A-proposition is true, the E-proposition is\_\_\_\_\_\_\_.

1. Determine whether or not the following inference is valid on the modern interpretation of the square of opposition; if the inference is valid, explain why; and if the inference is undetermined, explain why.  
     
   🡪 If the O-proposition is false, the A-proposition is\_\_\_\_\_\_\_.
2. **Explain the point or points at which, in each argument, the mistaken existential assumption is made**

a. (1) No mathematician is one who has squared the circle.

*therefore*, (2) No one who has squared the circle is a mathematician;

*therefore*, (3) All who have squared the circle are nonmathematicians;

*therefore*, (4) Some non mathematician is one who has squared the circle.

b.(1) It is false that: Some mermaids are members of college

sororities; *therefore* (2) It is true that: Some mermaids are not members of college

sororities. (From which it follows that there exists at least

one mermaid.)

1. **Diagram the following statements using Venn Diagrams**
2. Some sculptors are painters
3. No shopkeepers are members
4. No modern paintings are photographic likenesses of their objects.
5. Some patients exhibiting all the symptoms of schizophrenia have bipolar

disorder

1. **Use the Venn diagram to determine if the following immediate inference forms are valid from the Boolean standpoint, conditionally valid from the Aristotelian standpoint, or invalid (reflect on existential import).**

a. All *A* are *B.*

Therefore, it is false that no *A* are *B.*

b.It is false that some *A* are *B.*

Therefore, no *A* are *B.*

c. No *A* are *B.*

Therefore, some *A* are not *B.*

1. **Rewrite in standard categorical propositions, individuate subject, predicate, copula and quantifier. Say which term gets distributed, if any.**

1.Any television show that depicts violence incites violence.

2. Manipulators do not make good friends.

3. None but pirate ships fly the Jolly Roger.

4. A man is a bachelor only if he is unmarried.

5. No shellfish except oysters make pearls.

6. Shows that Martin Short are in are always peculiar.

1. **What Logical Form**

a. If I am Miley Cyrus, I am crazy.”

and

“I am not crazy.”

Then there is no way in hell I am Miley Cyrus.

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B. If I am in Tatarstan, I am in Russia.”

and

“I am in Tatarstan.”

Then it must be true that I am in Tatarstan.

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C. I will choose soup or I will choose salad.

I will not choose soup.

Therefore, I will choose salad.