"Chapter 5" continue

Review §5.1 Std Form // Mood // Figure. (p. 237).

1. Std Form
   a. Major Premise (Contains the P (predicate term of Conc.)
   Minor Premise (Contains the S (subject term of the Conc.)
   Conc. = \( \text{M} \) \( \text{E} \) \( \text{S} \) \( \text{P} \)).
      \[ \text{Minor Term} \quad \text{Major Term} \]

2. Both Major Prem \& Minor Premise contain a common term, M, the Middle Term.

3. The letter names of (Major Prem \& Minor Prem \& Conc.) constitute the "Mood" of the Cat. Syllogism

4. The position of M in Maj Prem \& Minor Prem constitute the "Figure" of the Cat. Syllog.

2. Some Examples -

   All P are M.
   No M are S.
   Some S are not P.

3. "Figure"

   Prem. \( \begin{array}{c}
   \neg \text{M} \\
   \text{C} \\
   \text{M} \\
   \end{array} \) Fig. 1.

   \[ \begin{array}{c}
   \neg \text{M} \\
   \neg \text{M} \\
   \text{M} \\
   \end{array} \] Fig. 2.

   \[ \begin{array}{c}
   \neg \text{M} \\
   \neg \text{M} \\
   \text{M} \\
   \end{array} \] Fig. 3.

   \[ \begin{array}{c}
   \neg \text{M} \\
   \neg \text{M} \\
   \text{M} \\
   \end{array} \] Fig. 4.

4. Another Example.

   No A are B.
   Some A are C.
   All C are B.

   EIA-3

   How many actual different Cat. Syl. Forms are there in this Universe of ours?

   \[ 4 + 4 - 4 = 256 \text{ different forms.} \]
§ 5.1 § 5.2 § 5.3 - 4 Methods of Assessing Validity of a Cat. Syll.

A "List" - § 5.1, p. 240

1 Unconditionally Valid List. (Boolean).

Fig 1  Fig 2  Fig 3  Fig 4
AAA    EAE    IAI    AEE.
EAE.   AEE.   AII    IAI
AII    AIO    OAO    EIO
EIO    AOO    EIO

2 Interesting Fact: If, for example, EAE-1 is valid (which it is)
No M are P.
All S are M. (becomes) All S are P.
No S are P.  just for fun  No P are S.

AEE-4

3 EIO is valid in any figure. (Old Mac Donald).

4 Conditionally Valid List (Aristotelian)

Fig 1    Fig 2
AAA      EAE
EAE      AEE
AII      EIO
EIO      AOO
AII (if S exists) EAE (if S exists)
EAO (if S exists) EAO (if S exists)

Fig 3    Fig 4
IAI      AEE
AII      IAI
OAO      EIO
EIO      AEO (if S exists)
AII (if M exists) EAO (if M exists)
EAO (if M exists) AAI (if P exists)

All the "new" figures have both premises universal w/ particular conclusion.

None of the "old" = "unconditional" figures have this structure.