First Year (B.A.)
(Philosophy Specialization)

Phil- 1103
Deductive Logic II
Time Allowed (3) Hours

Answer Five questions

1. Choose correct words, fill in the blanks and rewrite the followings.
   (a) The predicate term of the conclusion is -------- term.   (middle, major, minor)
   (b) The position of middle term determines the --------.   (mood, figure, position)
   (c) (M.P.T) is the rule of Mixed -------- Syllogism. (Alternative, Disjunctive, Implicative)
   (d) An Epicheirema is an abridged -------- Poly-Syllogism. (progressive, regressive, expressive)
   (e) Enthymemes can be defined as ------------ syllogism.   (brief, abridged, simple)
   (f) The term Poly means more than one or -----------.   (two, some, many)
   (g) Poly -Syllogism is a chain of ------------.   (thinking, reasoning, meaning)
   (h) If an argument ------------ a premise for another argument is called a pro syllogism.
                                                                      (provide, receive, take)

2. Test the validity of the followings by General Rules.
   (a) P e Q, Q o R ∴ R a P   (b) All A are B, Some C are not B, so some C are not A.
   (c) All Buddhists are religions. Some theists are Buddhists. So No theists are Religions.
   (d) Some computers are machines and all machines are useful. Therefore all computers are useful.

3. Prove the followings.
   (a) The major premise must be universal for figure II.
   (b) The minor premise must be affirmative for figure III.

4. Test the validity of the following by Venn's Diagrams.
   (a) M a C, H o C, ∴ H o M.   (b) No M are G, some G are not P. Therefore some M are P.
   (c) All Athenians are Greeks. All Greeks are humans. So, All Athenians are human.
   (d) Some graduates are not cowards because no soldiers are cowards and some graduates are soldiers.

5. Test the validity of the followings by rules of Mixed Arguments.
   (a) ~ (R . S), ~ R therefore S   (b) (P e Q) ⊃ (R a P), (P o Q) ∴ (R I P)
   (c) It is either a test book or study guide book. It is a study guide book. Hence it is not a text book.
   (d) If the middle term is not distributed at least once then it is invalid. The middle term is
       distributed at least once. Therefore it is valid.

6. Test the validity of the Enthymemes by the Venn's diagrams
   (a) Y e Z because X e Z   (b) No S are W and Some G are S.
   (c) All birds have wings and all sparrows are birds.
   (d) No Myanmar are Europeans, because no Europeans are Asians.

7. Test the validity of the following by sorites.
   (a) H a M, G a H, W a G, Y a W ∴ Y a M   (b) J i K, K a L, L a M, M e p ∴ J o P

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