



**MASENO UNIVERSITY**

**UNIVERSITY EXAMINATIONS 2017/2018**

**FIRST YEAR FIRST SEMESTER EXAMINATION FOR  
THE DEGREE OF BACHELOR OF ARTS PHILOSOPHY  
WITH INFORMATION TECHNOLOGY**

**MAIN CAMPUS**

**APH 103: INTRODUCTION TO LOGIC**

Date 22<sup>nd</sup> February, 2018

Time: 12.00 - 3.00pm

---

**INSTRUCTIONS:**

- Answer ANY THREE Questions. All questions carry equal marks



1.
  - (a) Explain the nature of logic and demonstrate its relevance.
  - (b) Discuss the meanings and relations between reasoning, inference, and arguments.
  - (c) Explain what premises and arguments are and the roles they play in arguments.
2.
  - (a) “Arguments can be true or false and statements can be valid or invalid”. Discuss the accuracy of this statement.
  - (b) With SEVEN examples explain how arguments can be valid or invalid regardless of whether their premises and conclusions are known to be actually true or false.
3.
  - (a) Explain what fallacies are and distinguish their various categories.
  - (b) Identify the errors in at least three (3) fallacies or relevance using examples.
  - (c) Identify the errors in at least two (2) fallacies of ambiguity using examples.
4.
  - (a) State the meaning of “categorical proposition”.

- (b) Identify and state the differences between the four (4) types of standard form categorical propositions (SFCEPs) .
- (c) Explain the meanings of the following terms: (i) quality; (ii) quantity; (iii) and distribution.
5. (a) With examples, state the relationships between propositions that are: (i) contraries; (ii) contradictories; and (iii) sub-contraries.
- (b) Explain the difference between super-altern and subaltern.
- (c) Sketch and explain the characteristics of the traditional square of opposition.
6. (a) Discuss the nature of standard form categorical syllogism (SFCS) by way of an example.
- (b) "Mood and figure make up the form of a SFCS". Briefly discuss.
- (c) Identify and explain the six rules on formal fallacies in SFCSs.