

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2013/2014

FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF ARTS WITH INFORMATION TECHNOLOGY

(MAIN CAMPUS)

APH 102: INTRODUCTION TO LOGIC

Date: 25th November, 2013

Time: 11.00 a.m. - 1.00 p.m.

INSTRUCTIONS:

Answer ANY THREE questions.

FIRST YEAR FIRST SEMESTER

MASENO - REGULAR

APH 102: INTRODUCTION TO LOGIC

INSTRUCTIONS: Answer ANY THREE questions! Each question carries 23 and 1/3 marks.

- 1. (a) Define logic and demonstrate its main focus!
- (b) With concrete examples, define the following terms: (i) argument; (ii) premises; and (iii) conclusions.
- (c) How do statements or propositions differ from other sentences such as commands or directives, exclamations, and questions? Discuss by giving examples!
- (a) State the entities that the concepts of truth and validity are characteristics of respectively!
- (b) Use 7 concrete examples to illustrate how arguments can be valid or invalid regardless of whether their premises and conclusions are known to be actually true or false?
- (c) Why is it that there is no example of a valid argument with all its premises true and its conclusion false?
- 3. (a) What is a fallacy?
- (b) With concrete examples, define at least three fallacies or relevance!
- (c) With relevant examples define at least two fallacies of ambiguity!
- 4. (a) Define a categorical proposition!
- (b) Define the four types of standard form categorical propositions (SFCPs) and use Venn diagrams to illustrate them.
- (c) Illustrate the difference between the following terms! (i) quality; (ii) quantity; (iii) and distribution?

- 5. (a) Define the relationship of SFCPs that are (i) contraries and (ii) contradictories, and (iii) sub-contraries while using concrete examples to illustrate!
- (b) Explain the difference between superaltern and subaltern!
- (c) Draw the traditional square of opposition and indicate its characteristics!
- 6. (a) Define a standard form categorical syllogism (SFCS) by way of an example!
- (b) Define and illustrate the form and figure of a SFCS!
- (c) Define and explain the six rules on formal fallacies in SFCSs!