

**STRATHMORE INSTITUTE**  
**DIPLOMA IN BUSINESS MANAGEMENT, DIPLOMA IN INTERNATIONAL RELATIONS**  
**AND DIPLOMA IN BUSINESS CREATION & ENTRENEURSHIP**  
**DBM & DE 1102, DIR1103: INTRODUCTION TO CRITICAL THINKING**

**DATE:** 15<sup>th</sup> December 2022

**TIME:** 2 hours

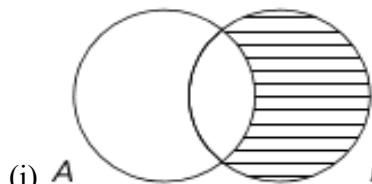
**Instructions: Answer ALL questions in section A (30marks)**

**Answer ANY TWO questions in section B (30marks)**

**Total marks: 60**

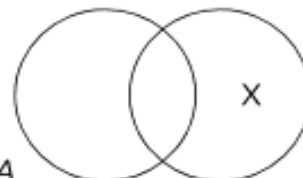
**SECTION A**

1. (a) One key functions of a university is to provide service to society. discuss two ways in which the university provides service to society **(4 marks)**
- (b) information Technology is a great tool for learning which can be used wrongly by students. Discuss two ways in which a student can use Information Technology wrongly **(4 marks)**
2. Define the following terms:
  - (a) A value calim **(2 marks)**
  - (b) a proposition **(2 marks)**
3. (a) Identify the types of knowledge implied the following phrases
  - (i) Starts from self-evident facts and rises to laws and causes. **(½ mark)**
  - (ii) Present in consciousness; **(½ mark)**
  - (iii) Preserved in memory and is capable of being recalled at will **(½ mark)**
  - (iv) Proceeds from general self-evident propositions **(½ mark)**
4. (a) Express the truth values of following propositions in Venn diagrams
  - i. No A are B **(1 mark)**
  - ii. All A are B **(1 mark)**
  - iii Some A are not B **(1 mark)**
  - iv. Some A are B **(1 mark)**
- (b) Write in statement form the truth values represented in the Venn diagrams below.

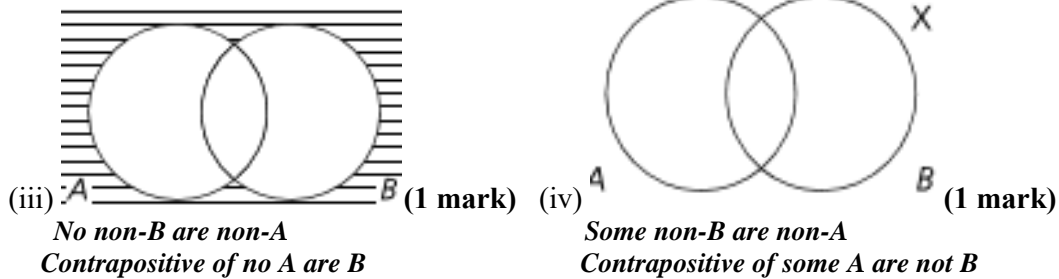


(i) **A**  
*All B are A- converse of*  
*All A are B*

**B (1 mark) (ii)**



**A**  
*Some B are not A*  
*Converse of Some A are not B* **B (1 mark)**



5. (a) differentiate between **vagueness** and **ambiguity** in a language and give an example in each case (2 marks)
- (b) Explain the **intentional** and **extensional** meaning of the term Cat (2 marks)

*Below is an excerpt from Abraham Lincoln’s speech “The Temperance address delivered in Springfield, Illinois on February 22, 1842. Read it carefully and answer the questions that follow.*

“.....For this new and splendid success, we heartily rejoice. That that success is so much greater *now* than *heretofore*, is doubtless owing to rational causes; and if we would have it continue, we shall do well to inquire what those causes are. The warfare heretofore waged against the demon Intemperance, has, somehow or other, been erroneous. Either the champions engaged, or the tactics they adopted have not been the most proper. These champions for the most part have been Preachers, Lawyers, and hired agents. Between these and the mass of mankind, there is a want of *approachability*, if the term be admissible, partially, at least, fatal to their success. They are supposed to have no sympathy of feeling or interest, with those very persons whom it is their object to convince and persuade.....”

6. From the excerpt above identify:
- (i) At least three statements and (3 marks)
- (ii) one argument made by Lincoln (3 marks)

## SECTION B

7. (a) Define faith (2 marks)
- (b) Discuss two errors against faith (4 marks)
- (c) Explain two arguments by St. Thomas Aquinas to prove the existence of God (4 marks)
- (d) State two types of truth (1 mark)
- (e) We know that when there is a contradiction there in an error in search of the truth, discuss two errors in search of the truth (4 marks)
8. Identify the fallacies below and in each case, with an appropriate example explain how each of these fallacies they are applicable in our day to day life.
- a) A python crossed Mary' path yesterday and, sure enough, she was involved in a car accident later yesterday afternoon. Her relatives believed that her involvement in the accident was sue to the python that crossed her path in the morning (3 marks)
- b) Victoria saw a Red Indian hunting in the forest and concluded that all red Indians live by hunting in the forests (3 marks)
- c) There are more school rules in the schools nowadays than ever before, and more schools are being closed due to students burning schools than ever before. Therefore, to reduce the burning of schools we must eliminate these school rules. (3 marks)

- d) Joy: Mom and Dad, how can you tell me not to come home after 7.30 pm when you both partied till morning most during your university days? **(3 marks)**
- e) Have you stopped licking sugar that you steal from your mum's kitchen? **(3 marks)**
9. Group the following arguments into deductive and inductive arguments;
- (a) All Strathmore students have calculators. Mary is a Strathmore student. Therefore, Mary has a calculator
- (b) Most Strathmore university students have laptops. Peter is a Strathmore University student. Therefore, Peter has a laptop.
- (c) All football fans are extroverts. Elizabeth Taylor is a football fan. Therefore, Elizabeth Taylor is an extrovert.
- (d) The vast majority of Hull City residents are white. Adebayo is a Hull City resident. Therefore, Adebayo is White. **(4 marks)**
- (c) Sketch the traditional table of opposition and label it correctly **(4 marks)**
- (b) If “*All Kenyans like eating Ugali*” is false, what is the truth value of the following propositions? (Create a truth table)
- |                |                  |
|----------------|------------------|
| (i) A is true  | (iii) E is false |
| (ii) I is true | (iv) O is false  |
- (4 marks)**
- (e) We know that when there is a contradiction there in an error in search of the truth, discuss two errors in search of the truth **(3 marks)**
10. (a) (i) **Convert** the following proposition and state whether the converse is logically equivalent or not logically equivalent to the given proposition. **(2 marks)**
- All social areas contaminated by dust are potential causes of lung cancer.*
- (ii) Obvert the following proposition and state whether the obverse is logically equivalent or not logically equivalent to the given proposition. **(2 marks)**
- Some school fee rebates are not actions fair to poor students.*
- (iii) Contrapose the following proposition and state whether the contrapositive is logically equivalent or not logically equivalent to the given proposition. **(2 marks)**
- No solids are compressible substances.*
- (b) (i) State two errors on knowledge of truth about God's existence **(2 mark)**
- (ii) state one significance of Critical thinking **(1 mark)**
- (c) Using the modern table of opposition, state whether the following propositions are true or false if “All Technical University of Mombasa live in Tudor” laptops is true
- i. No Technical University of Mombasa live in Tudor **(2 marks)**
- ii. Some Technical University of Mombasa live in Tudor **(2 marks)**
- iii. Some Technical University of Mombasa live in Tudor **(2 marks)**