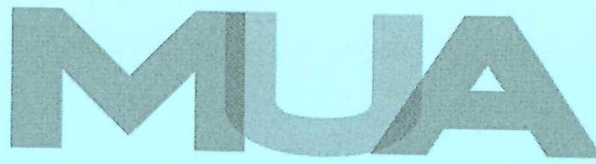


The
Management
University
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UNDERGRADUATE UNIVERSITY EXAMINATIONS

SCHOOL OF MANAGEMENT AND LEADERSHIP

DEGREE OF BACHELOR OF ARTS IN DEVELOPMENT STUDIES AND
BACHELOR OF MANAGEMENT AND LEADERSHIP

UCU 103 : INTRODUCTION TO LOGIC AND CRITICAL THINKING

DATE: 28TH MARCH 23

DURATION: 2 HOURS

MAXIMUM MARKS: 70

INSTRUCTIONS:

1. Write your registration number on the answer booklet.
2. **DO NOT** write on this question paper.
3. This paper contains **SIX (6)** questions.
4. Question **ONE** is compulsory.
5. Answer any other **THREE** questions.
6. Question **ONE** carries **25 MARKS** and the rest carry **15 MARKS** each.
7. Write all your answers in the Examination answer booklet provided.

Question One

A. Five (5) nationals were engaged to do manual jobs as seen from table 1

DAYS	Nationality	Manual Jobs done												Effect (sick)
		1	2	3	4	5	6	7	8	9	10	11	12	
MONDAY	Kenya	-	x	-	-	-	x	x	x	x	-	x	x	X
TUESDAY	Italy	x	-	x	x	-	x	-	-	-	-	x	-	-
WEDNESDAY	Israel	-	x	x	-	x	-	-	x	x	-	-	x	X
THURSDAY	Israel	x	-	-	-	x	x	x	-	x	x	-	-	-
FRIDAY	Seychelles	x	-	x	x	-	-	-	x	-	-	x	-	X
SATURDAY	Kenya	-	x	-	x	-	-	x	x	x	-	-	x	X
SUNDAY	Italy	-	-	-	-	x	x	-	-	x	x	-	x	-
Monday	Chile	x	x	x	x	-	x	-	-	x	x	x	x	-
Tuesday	Chile	-	x	-	-	x	-	-	x	-	-	x	x	x

Note: X denotes presence, - denotes absence

- i. From the table, Identify the job which is the most probable cause of the sickness (4 marks)
 - ii. Explain the mills method you have used to identify the job above (4 marks)
 - iii. Was the job in a above a necessary, a sufficient or a necessary and sufficient condition for an employee to get sick (4 marks)
 - iv. If you were to engage an employee; which one would you prefer and why, assuming no discrimination on color, race or nationality (4 marks)
 - v. After a number of jobs, one of the employees could not get more jobs from employers. Identify the employee and suggest possible reason (4 marks)
- B. Logic is the study of arguments. In order to apply logic, it is important to distinguish arguments from non-arguments. Discuss the five steps used to distinguish arguments from non-arguments (5 marks)

Question Two

- A. Discuss the following as used in logic (8 marks)
- i. Cognition
 - ii. Skepticism
 - iii. Logic
 - iv. Argument
- B. Explain the three factors that may lead an arguer to commit a fallacy (7 marks)

Question Three

- A. Reduce the following categorical proposition into its standard form and determine its letter name, quality, quantity and terms distributed
- “No governors in Kenyan counties are persons who are not holding degrees from recognized academic institutions” (10 marks)
- B. Critical thinking is a complex process of deliberations involving a wide range of skills and attitudes Discuss any Five skills needed for critical thinking(5 marks)

Question Four

- A. Suggest the use of critical thinking to a Management student (10 marks)
- B. With reasons, state whether you agree or disagree with each of the following statements (5 marks)
- i. A Kenyan one shilling coin has two faces
 - ii. Some people doing logic and critical thinking paper have one head
 - iii. A human being is not an animal
 - iv. Since the world was created, those living are more than those who have died
 - v. The young one of an animal is a small animal

Question Five

- A. With relevant examples, discuss the following types of fallacies **(6 marks)**
- i. Formal Fallacies
 - ii. Informal fallacies
 - iii. Fallacies of Relevance
- B. Using modern square of opposition, prove the validity of the following proposition "Some Kenya musicians are great because they do not contribute to smoking Marijuana. Therefore it is false that no Kenyan musicians are great because they contribute to smoking Marijuana" **(9 marks)**

Question Six

- A. Draw a Venn diagram of three circles. Let one circle represent Red Things, another Mammals and a third Living Things. Name the outside region O and the common region P. Name common region to Red Things and living things K, to Living things and Mammals L, to Mammals and Red Things M. Let the remaining region in Red Things be N, Living things be R and in Mammals be S
- i. Shade all blank regions **(2marks)**
 - ii. Name any one item or organism to be found in each of the un shaded regions **(5 marks)**
 - iii. State the region you will find each of the following
 - Men
 - Black stone
 - Pawpaw tree**(3 marks)**
- B. Binti Mtumba is claiming that with powers given by her God she has been able to double any amount of money you give her so that you can be rich. Enumerate any three criteria for authenticating her claim **(5 marks)**