



W1-2-60-1-6

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS 2014/2015

**FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF DEVELOPMENT STUDIES**

SMA 2100 : DISCRETE MATHEMATICS

DATE: AUGUST 2014

TIME: 2 HOURS

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO QUESTIONS

QUESTION ONE [30 MARKS]

(a) Define the following terms

- (i) A set [2 marks]
- (ii) Power set [2 marks]
- (iii) Relation [2 marks]
- (iv) Equivalence relation [2 marks]
- (v) Truth table [2 marks]

(b) State and prove four laws of sets. [4 marks]

(c) Let $A = \{a, b, c, d\}$, $B = \{d, e, a, c\}$, $C = \{d, b, a, c\}$ and $D = \{a, a, d, e, c, e\}$ which of the above sets are equal. [2 marks]

(d) Let $S = \{n \in \mathbb{Z} : n = (-1)^k, \text{ for some integer } k\}$ disprove S . [3 marks]

(e) Suppose $A = \{1, 2, 3\}$, $B = \{u, v\}$ and $C = \{m, n\}$ list the elements of $A \times (B \times C)$ [2 marks]

(f) Transform the following summation and product notation by making a change of variable $i = k + 1$

(i) $\sum_{k=1}^5 k(k+1)$ [2 marks]

(ii) $\prod_{k=1}^5 \frac{k^2}{k+1}$ [2 marks]

(g) Let $A = \{2, 4, 6, 8\}$ and $B = \{1, 3, 5, 7, 9\}$, by first defining state

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The Report: Kenya 2014 Oxford Business Group, 2014-11-13 The country has a strong private sector and received encouraging forecasts of new oil gas and water reserves which if harnessed appropriately bode well for future growth While a pending international court case resulting from prior elections provoked a measure of uncertainty the country's medium to long term economic outlook is robust With over 40% of the population under the age of 15 Kenya stands to benefit from a significant demographic dividend provided that sufficient jobs can be found when this population bulge enters the workforce The country has a reasonably sized industrial base competitive infrastructure and a large agricultural sector all of which offer opportunities for capital intensive investment Sustainable Education and Development - Sustainable Industrialization and Innovation Clinton Aigbavboa, Joseph N. Mojekwu, Wellington Didibhuku Thwala, Lawrence Atepor, Emmanuel Adinyira, Gabriel Nani, Emmanuel Bamfo-Agyei, 2023-02-17 This book presents papers from the 11th Sustainable Education and Development Research Conference on the theme Build Resilient Infrastructure Promote Inclusive and Sustainable Industrialization and Foster Innovation Papers related to the sub themes were presented i Develop quality reliable sustainable and resilient infrastructure including regional and transborder infrastructure to support economic development and human well being with a focus on affordable and equitable access for all ii Promote inclusive and sustainable industrialization and by 2030 significantly raise industry's share of employment and gross domestic product in line with national circumstances and double its share in the least developed countries iii Increase the access of small scale industrial and other enterprises in particular in developing countries to financial services including affordable credit and their integration into value chains and markets iv By 2030 upgrade infrastructure and retrofit industries to make them sustainable with increased resource use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes with all countries taking action in accordance with their respective capabilities v Enhance scientific research and upgrade the technological capabilities of industrial sectors in all countries in particular developing countries including by 2030 encouraging innovation and substantially increasing productivity SEDRC gathers papers that explain how key education on the Sustainable Development Goals is transforming lives eradicating poverty professing solutions to the infrastructural deficit in Africa and providing innovative ways to provide affordable housing in Africa This book will be of interest to academics postgraduate students and industry professionals

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