JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS 2016/2017

THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

STA 2200: PROBABILITY AND STATISTICS II

DATE: APRIL 2017   TIME: 2 HOURS

INSTRUCTIONS:
ANSWER QUESTION ONE [COMPULSORY] AND ANY OTHER TWO QUESTIONS

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QUESTION ONE

(a) State two conditions for a continuous real valued function $f(x)$ to be a probability density function [2 marks]

(b) Let the random variable x have the following probability density function

x	-1	0	1
F(x)	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{7}{12}$

Let $E[W(2)]$ denote the expected value of $w(x)$. Find

(i) $E(x)$ [2 marks]

(ii) $E[2x^2+x+1]$ [4 marks]

(c) Let X be a random variable whose pdf is

$$f(x) = \begin{cases} \dfrac{e^{-\lambda}\lambda^x}{x!} & x = 0,1,2\ldots\ldots \\ 0 & otherwise \end{cases}$$

(i)   Show that its moment generating function is given by $e^{\lambda(e^t-1)}$ [3 marks]

(ii)   Hence or otherwise obtain the mean and variance of X [5 marks]

(d) Let $f(x)$ be the pdf of a random variable x

$$f(x) = \begin{cases} k(1-x)^2 & 0<x<1 \\ 0 & otherwise \end{cases}$$

Jkuat Probability And Statistics Past Papers And Solutions

Julie Ann Seely

Jkuat Probability And Statistics Past Papers And Solutions:

Probability and Statistics Exam File Thomas Ward,2007-07-03 This collection of over 350 problems and detailed solutions was developed from actual exams of professors at respected U S colleges and universities Students enrolled in probability and statistics courses or preparing for standardized tests that these topics will obtain ample problem solving practice from this book Topics include descriptive statistics probability discrete and continuous random variables discrete and continuous distributions means proportions variances regression analysis of variance factorial experiments nonparametric statistics quality control and reliability **Statistics Past Exam Papers and Solutions** ,1999 Probability & Statistics Thomas Ward,2004 **Student Solutions Manual for Devore's Probability and Statistics for Engineering and the Sciences** Julie Ann Seely,2004 The student solutions manual contains the worked out solutions to all odd numbered problems in the book **Exercises and Solutions in Probability and Statistics** Gary Smith,2025-09-02 The book contains hundreds of engaging class tested statistics exercises and detailed solutions that test students understanding of the material Many are educational in their own right for example baseball managers who played professional ball were often catchers stocks that are deleted from the Dow Jones Industrial Average have generally done better than the stocks that replaced them athletes may not get hot hands but they often get warm hands with modest improvements in their success probabilities Solutions Manual for Probability and Statistics for Engineering and the Sciences, Second Edition Devore,Jay L. Devore,1987 Student Solutions Manual [for] Probability & Statistics for Engineers & Scientists, 8th Ed Sharon L. Myers,Keying Ye,2006-08 Fully worked solutions to odd numbered exercises **Probability and Statistics Exam File** ,1985 **MTE-11 Probability and Statistics** Honey Garg,2011-08-16 MTE 11 Probability and Statistics Topics Covered Block 1 Descriptive Statistics Unit 1 Frequency Distribution of a Character Unit 2 Measures of Central Tendency and Dispersion Unit 3 Skewness and Kurtosis Unit 4 Correlation and Regression Block 2 Probability on Discrete Sample Spaces Unit 1 Sample Space of a Random Experiment Unit 2 Probability on a Discrete Sample Space Unit 3 Discrete Random Variable and its Probability Distribution Unit 4 Standard Probability Distributions Part I Unit 5 Standard Probability Distributions Part II Block 3 Distribution Theory Unit 1 Univariate Distributions Unit 2 Standard Continuous Distributions Unit 3 Bivariate Distributions Unit 4 Functions of Random Variables Unit 5 Limit Theorems Block 4 Elements of Statistical Inference Unit 1 General Introduction Unit 2 Point Estimation Unit 3 Testing of Hypotheses Unit 4 Common tests and Confidence Intervals Question Papers Total 19 Solved 8 Unsolved 11 1 June 2012 2021 2 December 2011 2013 2019 3 February 2021 **Exercices in Probability and Statistics** N. A. Rahman,1967 **Student Solutions Manual for Devore's Probability and Statistics** Julie Ann Seely,2000 Solutions Manual for Probability and Statistics Julius R. Blum,Judah Isser Rosenblatt,1972 **Practical Exercises in Probability and Statistics** Najeeb Abdur Rahman,1972 **Solutions Manual** Athanasios Papoulis,1990 Elements of Probability and Statistics. Answers to Selected Problems, Etc Frank L. Wolf,1962

Solutions Manual for Probability and Statistics B. Beaver,2001   **Student Solutions Manual for Introduction to Probability and Statistics** Nelson Education Limited,2018-03-23   **Student Solutions Manual** Matthew A. Carlton,2014   **Student Solutions Manual for Probability and Statistics for Engineers and Scientists** Anthony J. Hayter,2007   **Introduction to Probability and Statistics** Christopher John Wild,George Arthur Frederick Seber,University of Auckland. Department of Statistics,1996

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