

Universidad Autónoma de Baja California Facultad de Ciencias Administrativas



Economics-Management, Statistics and Mathematics EXANII Study Guide

Economy - Administration

*Introduction to administration and historical background

Administration Origin

Management Definition

Theoretical approaches of administration

*Systems Approach

Concept and classification systems approach

The role of administrator in public and private organizations

*Functional Areas

Marketing

Finance

Production and Operations

Human resources

Tourism

*Administrative process

Concept

Stages

*General information on economics

Definition and purpose of the economy

Micro and macroeconomics

*First schools of economic thought

Mercantilists and Physiocrats

Classics

*Elements of analysis of the economic system

Agents of economic activity

Economic activities: production and services

Economic indicators: domestic product, gross, inflation, employment,

investment flow

*Economic process

Supply Curve

Demand curve

Demand, supply and pricing

Types of market and competition

*The role of administrator in public and private organizations

Definition of marketing

Marketing strategies

Market research

Marketing and sales strategies

Promotion mix

International marketing

Social marketing



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*Planning

Definition and planning purposes

Advantages of planning

Types of plans

Mission, vision, projects or purposes, goals and objectives, strategies,

policies, procedures, rules, programs,

Budgets

*Organization.

Concept Organization Function

Design and organizational structure

Definition of design and structure

Classic design principles of the organization

Specialization

*Direction

Motivation

Concepts and motivation process

Theories of motivation

Leadership

Leadership Styles

Communication

Developing communication skills

*Control

Process Control

Statistics

*Descriptive statistics

Notion and utility of descriptive statistics: its scope

Definition of Population and Sample Variables

Types of variables (Quantitative and qualitative; continuous and discrete) and level measurement nominal, ordinal and interval)

Frequency distribution: classes, intervals, limits, limits real brand

Measures of Central Tendency: media, median, mode, quartiles,

deciles and percentiles; Clustered and non-clustered Data Measures of dispersion: range, variance and standard deviation;

Clustered and non-clustered Data

Graphical representations: bar, histogram

*Set Theory

Characteristics of set theory

Set Operations: Union, Intersection, Difference and complement Venn-

Euler Diagrams

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Probability

Concept and Application of probability

Mathematics

*Aritmethics

Operations of natural numbers and integers (Euclidean algorithm)

Operations of real numbers and scientific notation

Algebra

Methods for representing linear and quadratic equations

Basic operations with algebraic fractions and radicals

Laws of Exponents and radicals (logarithmic and exponential equations)

*Geometry

Parallelism, congruence, similarity (Thales theorem) and straight (and bisector bisector)

Calculate perimeters and areas of plane figures

Geometric figures: perimeter, area and volume

Pending the straight and angle between straight

Equations and graphs of the circle, parabola, ellipse and hyperbol

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