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2

1. Probability and Distribution

- 1.1 Basic properties of probability
- 1.2 Addition rule of probability
- 1.3 Independent and mutually exclusive events
- 1.4 Conditional probability
- 1.5 Multiplication rule of probability

2. Random Variables

- 2.1 Notion of random variable
- 2.2 Probability distribution
- 2.3 Binomial, Poisson and Normal distribution
- 2.4 Mathematical expectation
- 2.5 Distribution of independent random variables
- 2.6 Notion of likelihood function

3. Mathematics for Statistics

- 3.1 Rates, Ratios and Proportion
- 3.2 Number system
- 3.3 Logarithm
- 3.4 Principle of least square
- 3.5 Rank of a matrix
- 3.6 Inverse of a matrix
- 3.7 Quadratic forms

4. Descriptive statistics

- 4.1 Measures of central tendency
- 4.2 Measures of dispersion
- 4.3 Measures of kurtosis
- 4.4 Measures of skewness
- 4.5 Measures of positional statistics: quartile, quintile, & decile

5. Correlation and Regression

- 5.1 Simple, partial and rank correlation
- 5.2 Multiple correlation and coefficient of determination
- 5.3 Simple and multiple regression
- 5.4 Measures and tests of goodness of fit in regression
- 5.5 Tests for normality in regression

6. Estimation

- 6.1 Properties of a good estimator
- 6.2 Methods of estimation
- 6.3 Properties of maximum likelihood estimator
- 6.4 Best linear unbiased estimator
- 6.5 Interval estimation

7. Hypothesis testing

- 7.1 Simple and composite hypothesis
- 7.2 Type I and type II error

7.3 Unbiased test	
7.5 z, t, chi-square and F tests	
7.6 p value	
8. Sampling methods and Distributions	3
8.1 Simple random sampling	
8.2 Stratified random sampling	
8.3 Systematic sampling	
8.4 Standard errors	
8.5 Sampling distribution	
8.6 Distribution of sample mean	
9. Time-series Analysis	2
9.1 Trends, and seasonal & cyclical variations	
9.2 Autocorrelation and its test	
9.3 Forecasting	
10. Economics	2
10.1 Endogenous and exogenous variables	
10.2 Absolute and relative change	
10.3 Concept of marginal and elasticity	
10.4 Consumption function, saving, capital formation and capital output ratio	
10.5 Cobb-Douglas production function	
10.6 Gini Coefficients	
11. Data collection and processing activities	2
11.1 Data gathering process	
11.2 Questionnaire design	
11.3 Methods and techniques of data summarization/analysis	
11.4 Errors in surveys and censuses: Control and measurement of errors	
11.5 Quality evaluation of data	
12. National accounts statistics of Nepal	1
12.1 System of National Accounts (SNA) – Importance and uses	
12.2 Macro economic aggregates – Nominal and Real GDP, GNI, Consumption, Saving	
13. Population statistics of Nepal	2
13.1 Major sources of population data	
13.2 Population censuses of Nepal	
13.3 Composition and distribution of population	
13.4 Fertility, Mortality, Migration	
13.5 Population growth and population projection	
14. Price and indexes	3
14.1 Wholesale price, retail price, producers price	
14.2 Consumers Price Index (CPI)	
14.3 Agricultural Production Index	
14.4 Manufacturing Production Index	
15. Human development and poverty Statistics	2
15.1 Human Development Index (HDI) and monitoring Poverty	
15.2 Sustainable Development Goals	
15.3 Major sources of poverty statistics	
15.4 Poverty measurement	

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(20 Mark)

1.6 Research methodology

2.8 Student's t and chi-square distribution

3.5 Current Statistical act and statistical refulations

(30 Marks)

4.5 Cobb-Douglas production function

5.2 Macroeconomic aggregates – Nominal and Real GDP, GNI, Consumption, Saving

6.5 Manufacturing Producers Price Index

7.2 Revenue statistics

7.3 Money and banking statistics

7.4 Balance of Payment (BOP)

8. Industry, Trade and Service Statistics of Nepal

8.1 Major sources of data

8.2 Censuses and surveys of manufacturing establishments

8.3 Internal and international trade statistics

8.4 Energy statistics

8.5 Irrigation and water statistics

8.6 Other establishment surveys

9. Agriculture, Fishery and Forestry Statistics of Nepal

9.1 Major sources of agricultural statistics

9.2 Agricultural censuses

9.3 Current agricultural statistics – importance and problems

9.4 Food balance sheet

9.5 Forestry statistics

9.6 Objectives, targets and strategies of Agriculture Perspective Plan (APP)

Section – C : Poverty & Social Statistic (30 Marks)

10. Poverty Statistic

10.1 Poverty measurement in Nepal

10.2 Latest HD status and poverty situation of Nepal

10.3 Sustainable Development Goals (SDGs)

10.4 Major sources of poverty statistic

10.5 Poverty measuring practices in Nepal

10.6 Nepal Living Standard Survey (NLSS)

11. Social Statistics

11.1 Major sources of social statistics

11.2 Health Indicators

11.3 GER, NER, and other educational statistics

12. Labor and Employment

12.1 Labor force, employment, underemployment, unemployment

12.2 Major sources of labour and employment statistics

12.3 Nepal Labour Force Surveys

12.4 ISIC, ISOC, NSOC

12.5 Child labour

13. Population Statistics of Nepal

13.1 Major sources of population data

13.2 Population censuses of Nepal

13.3 Composition and distribution of population

13.4 Fertility, Mortality, Migration

13.5 Population growth and population projection

Section – D : Fund Management & Investment (20 Marks)

14. Fund Management

14.1 Retirement Fund

14.2 Pension Fund

14.3 Capital Market

14.4 Insurance

14.5 Derivative Market

15. Investment

15.1 Business Plan

15.2 Business Model

15.3 Contingent Liabilities

15.4 Program, monitoring & evaluation

---The End---

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