

Group-10

Statistical Jobs (Level of Exam- B.A. with Economics/Maths/Statistics)

- 1) General awareness, Reasoning, Mathematics, Science, History including Haryana related history, current affairs, literature, Geography, Civics, Environment, Culture etc.- **Weightage 20%**
 - 2) Computer terminology, Fundamentals, word software, excel software, Power point, internet, web browsing, Communication, emails, downloading and uploading data on websites etc. - **Weightage 10%**
 - 3) Subject related syllabus- **Weightage 70%**
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ECONOMICS OF DEVELOPMENT

Economic Growth and Economic Development, Development and Underdevelopment, Approaches to Economic Development, Factors affecting Economic Growth, Poverty — Absolute and Relative; Measuring Poverty – Head Count and Poverty gap, Vicious Circle of Poverty, Human Development Index (HDI) and other Indices of Development and Quality of life, Population Problem and Growth Pattern of Population in Developing Countries, Traditional Measures of Economic Development – National Income, Per Capital Income, UNDP Indices for Measurement of Development, Classical Theory of Development- Adam Smith and Marx, Steady State Growth - An Introduction, Growth models — Harrod and Domar, Neo Classical Model of Growth- Robert Solow, Cambridge Model of Growth – Joan Robinson, Structural Shifts with Economic Development, Relative importance of Agriculture, Industry and Services, Role of Infrastructure in Economic Development: Physical and Social Infrastructure, Trade and Development – Classical, Structuralist and Eclectic views, Export Promotion and Import Substitution, Trade as an Engine of Growth, Terms of Trade and Gains from Trade, Environment-Economy Linkage, Management of Common Property Resources, Prevention, Control and Abatement of Pollution, Sustainable Development: Concept and Indicators, Development Planning: Meaning & Rationale, Types of Plans and Process of Planning, Changing Role of State.

INDIAN ECONOMY

Capitalist, Socialist & Mixed economy, Developed and Developing Economy –Concepts, Basic Characteristics of Indian Economy as a Developing Economy, Comparison of Indian Economy with Developed Economies, Major Issues of Development in India, Population, Theory of Demographic Transition, Size and Growth of Population, Features of Indian Population, Causes of Growing Population, High Birth Rate and Decreasing Death Rate, Problems of Over Population, Measures for Population Control, Population Policy 2005 onward, Poverty and Unemployment, Meaning and Concepts of Poverty, Poverty line- Need of Redefining, Measurement of Poverty, Causes of Poverty, Measures of Eradication of Poverty, Unemployment – Nature, Types, Causes & Measures, Agriculture, Place of Agriculture in Indian economy, Agricultural Productivity – Causes of Low Productivity & Measures, Green Revolution- Achievements & Failures, Sources of Agricultural Finance, Agricultural Marketing – Defects & Measures, Special Economic Zone- Concept, Features, Problems, Industry, Role of Industrialization, Industrial Policy – 1991onwards, New Economic Reforms – Concepts, Liberalization, Privatization, Globalization, MSME, Small and Large Scale Industry – Growth and Problems, Growth of Knowledge Based Industry – IT, Software Consultancy, Labour, Meaning and Classification of Labour, Characteristics of Industrial Labour, Industrial Disputes Causes, Measures for Settlement, Social Security Measures in India, Planning, Meaning, Concepts, Need and Objectives, Types of Planning, Merits and Demerits, Objectives, Achievements, and Failures of Five Year Plans, Objectives of NITI Aayog, External Sector, Trends and Composition of India's Imports, Trends and Direction of India's Exports, EXIM Policy of India in relation to Trade Liberalization and its Impacts, FDI, FII and MNCs in India, External Borrowings and BOP Problem in India, International Institutions (IMF, WB, ADB, WTO) and the Indian Economy.

Haryana economy: nature, characteristics and problems; concept of economic development; State of the Haryana economy since its inception: Income; Population, Health & Nutrition and declining sex ratio, Haryana agriculture: nature, cropping pattern, role of agriculture in Haryana economy, Measures for development in agriculture, crop insurance, Agriculture credit: agriculture finance, types of agriculture finance; credit needs of farmers; sources of credit: institutional and non-institutional sources; NABARD; rural indebtedness: causes, consequences and debt relief measures, Micro, small & medium enterprises (MSME) in Haryana: meaning, role, performance and challenges; SEZ, Growth of MNCs in Haryana, Role

of HSIIDC, HFC, HAFED, HKVIB, Haryana budget: objectives and policies, sources of revenues and its utilization.

Fundamental of STATISTICS

Introduction to Statistics: Collection of data: primary and Secondary data. methods of Sampling (Random, Non-Random), Definition of Probability – Census- Schedule and questionnaire - Frequency distribution – Tabulation - Diagrammatic and graphic presentation of data

Measures of Central Tendency: Meaning objectives and characteristics of measures of central tendency Types of Averages: Arithmetic Mean, Geometric Mean, Harmonic Mean, Median, Mode, Quartiles Deciles, Percentiles- Properties of averages and their applications.

Measures of Dispersion and Skewness: Dispersion: Meaning and properties Types: Range Quartile Deviation, Mean Deviation, Standard Deviation, Coefficient of Variation. Skewness: Meaning Karl Pearson and Bowl's measures of skewness, concept of kurtosis normal distribution.

Vital Statistics: Collection of vital statistics- Measures of Mortality and Fertility rates, life tables, Population growth.

Index Numbers and Time Series Analysis

Index numbers: uses, types and construction; Tests for consistency of index numbers; Base shifting, splicing and deflating of index numbers. Time series analysis: introduction and components; Methods for measuring trend, seasonal, cyclical and irregular variations.

Probability and Sampling

Basic concepts and definitions of probability; Laws of addition and multiplication; Conditional probability; Bayes' theorem (statement); Binomial, Poisson and Normal distributions; Basic concepts of sampling- random and non-random sampling.

Data Analysis and Hypothesis Testing

Types of data and statistical analysis procedures: univariate, bivariate and multivariate (only overview); Hypothesis testing procedures based on Z-test, t-test, χ^2 -test, F-test and ANOVA.

Correlation and Regression Analysis

Correlation: Karl Pearson, Spearman's Rank and Concurrent Deviations; Introduction to simple regression analysis; Single linear equation regression model (by OLS Method), Concept of an estimator and its desirable properties; Coefficient of determination; Estimation of simple and exponential growth rates.

Elementary Mathematics: Decimal fraction, percentage, Rates & ratio, average, simple and compound interest, square roots.

Economic Concepts: Law of Demand and Supply, Concept of elasticity, Demand forecasting, Price determination under different markets, National Income, Economic Growth and Planning, Inflation, Money, Banking and Financial Inclusion.

Financial Accounting: Introduction to accounting - Accounting concepts and conventions – Accounting process - Journalizing, posting to ledger accounts - Subsidiary books including Cash book - Bank Reconciliation Statement - Preparation of Trial Balance and Final Accounts - Errors and Rectification - Depreciation and Reserves – Single entry and non-trading concerns.

Important Note: The Weightage as mentioned against the syllabus is tentative & may vary.