



**ODISHA STAFF SELECTION COMMISSION, UNIT-II,
BHUBANESWAR**

EMAIL: orissassc@gmail.com, Tel.0674-2392833

No. IIE- 64/2024- 4790 /OSSC,

Date: 30.11.2024

Subject: Addendum Notice regarding Syllabus of Technical Paper for Main written Examination of CGLRE Specialist-2024.

Pursuant to Advertisement No.4614/OSSC dated 19.11.2024, it is informed to all concerned that the syllabus of the **Technical paper** of Main written Examination for the post of Assistant Statistical Officer and Statistical Assistant under **Combined Graduate Level Recruitment Examination for Gr-B & Gr-C Specialist Posts/Services-2024 (CGLRE Specialist-2024)** is enclosed below.

Candidates are also advised to keep in constant touch with the OSSC website for further updates on the matter.

By order of the Commission


30.11.2024
Secretary

SYLLABUS OF TECHNICAL PAPER FOR THE POST OF ASSISTANT STATISTICAL OFFICER UNDER PLANNING & CONVERGENCE DEPARTMENT & STATISTICAL ASSISTANT UNDER LABOUR & ESI DEPARTMENT.

STATISTICS

- Probability and probability distributions: Definition, Addition and Multiplication law of probability, Mathematical expectation, Binomial, Poisson and Normal distributions, Joint distribution of two variable, Marginal and Conditional distribution, Moment generating function & Characteristic function, Collection, Compilation, Classification and tabulation of data, diagrammatic and graphic representation of data, Construction of histogram and ogives.
- Measures of Central Tendency: Mean, Median, Mode, G.M., H.M and their applications, Measures of dispersion-Range, quartile deviation, Mean deviation, standard deviation & their properties.
- Theory of Attributes: Measures of association, consistency and independence of attributes.
- Correlation and Regression: Scatter diagram, Correlation coefficient and properties, Rank correlation, probable error, linear regression for two variables, Regression coefficients & their properties.
- Concept of population, sample, parameter, Statistic, sampling unit, Sampling frame, Sampling fraction, Sampling with & without replacement, Census vs Sample survey, Design of sample survey and principle of sampling, simple random sampling, stratified random sampling, Systematic sampling, Cluster Sampling, Multistage sampling, Sampling error and Non-Sampling error.
- Hypothesis Testing: Null and Alternative hypothesis, Type I & II errors, Critical region, Critical value, Level of significance, Test of significance, testing of hypothesis for large sample tests and small sample tests, chi-square, t & F tests for significance.
- Time series Analysis: Components of time series & their measures, Different models, secular Trend, seasonal & Cyclical variations, Irregular variations.
- Vital Statistics: Measures of various birth & death rates, Gross reproduction rate (GRR), Net reproduction rate (NRR).
- Official statistics: Functions of CSO, NSSO & MOSPI, Census, Agricultural statistics.

ECONOMICS

- Economic Concepts: Law of Demand and Supply, Concept of Elasticity, Price determination under different markets: Perfect Competition, Monopoly & Monopolistic Competition, National Income & related aggregates- Concepts and methods of computation, Basic concepts of Economic Growth & Development. Money- Functions of Money, value of money, Inflation, Deflation & Monetary Policy, Banking- Types of Bank & their functions, Fundamental of Public Budget.
- Indian Economics: Population and Economic Development, Demographic profile of India, Nature of Population Problem - Poverty, Inequality, Unemployment problem, Labour Problem, Population control and Government Policy. Indian Banking System, Fiscal Responsibility and Budget Management Act, Financial Inclusion, Balance of payment in India, economic Liberalisation in India.
- Important Policies/ Schemes of Government of India & Government of Odisha; Employment Programmes- MGNREGS/ NRLM, Mission Shakti, National Education Policy, National Health Mission, Startup India/ Startup Odisha, NFSA/SFSS.

MATHEMATICS

- Elementary mathematics: Decimal, fraction, Percentage, Rates & Ratio, Time & Work, Average, Simple and Compound interest and logarithms.
- Matrices and determinants, Limit and continuity, Differentiation, Integration.

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