



GOVERNMENT OF ODISHA

**ORISSA STATISTICS AND ECONOMICS SERVICE RULES
1979**

Planning and Co-ordination Department

Planning and Co-ordination Department

Notification

No-10339 P In exercise of the powers conferred by the provision to article 309 of the Constitution of India the Governor of Orissa is pleased to make the following Rules for the regulation of recruitment to the Orissa Statistics and Economics Service and of conditions of service of persons appointed thereto

Chapter – I

General

Short title and commencement

1. The rules may be called the Orissa Statistics and Economics Service Rules, 1979.
2. They shall come into force on the date of the publication in the official Gazette
2. In these Rules unless the context otherwise requires.
 - a. "Bureau" means Bureau of Statistics and Economics, Government of Oriss.
 - b. "Commission" means the Orissa Public Service Commission.
 - c. "Departmental Examination" means the Department Examination referred to Rule 22.
 - d. "Government" means the Government of Orissa in the Planning and Co-ordination Department.
 - e. "Schedule" means Schedule appended to these Rules.
 - f. "Schedule Caste and Schedule Tribe means

Chapter – II

Cadre

3. (1) The Orissa Statistics and Economics Service shall comprise
 - (a) The Orissa Statistics and Economics Service, Class-I
 - (b) The Orissa Statistics and Economics Service, Class-II.
- (2) The Orissa Statistics and Economics Service, Class-I shall include the posts of Joint Director. Deputy Director. Principal of Statistical Training institute and such other post or posts as Government may from time to time specify in this behalf,
- (3) The Orissa Statistics and Economics Service, Class-II shall include the posts of Assistant Director. District Statistical Officer and Additional District Statistical Officer of the Bureau of Statistics

and Economics, and Research Officer. .Assistant Director and such other technical posts created in Planning & Co-ordination Department and the post or posts in this rank in other department to which the officers of the Bureau are deputed and such other post or posts as Government may from time to time specify in this behalf.

(4) The cadre of the service shall consist of such number of permanent and temporary posts as Government may by order determine.

Explanation—It shall be competent for the Government to determine from time to time in respect of each branch of the service, the number of permanent and temporary posts to be included

(4) (1) Government may, after the commencement of these rules, by order (specify the posts created Primarily for Statistical and Economic analysis work in any Department of Government to be induced :in any branch of the service whereupon the incumbents of such posts will be members of the service in that branch.

Provided that no such order shall be made unless the Commission have been consulted in each case.

(2) The Planning & Co-ordination Department shall be the cadre authority and shall be competent to delegate such functions in favour of such authorities as may be specified in that behalf.

5. (1) There shall be constituted a Departmental Promotion Committee for selection of officers for promotion to various gazetted posts in the Orissa Statistics and Economics Service.

(2)The Departmental Promotion Committee shall consist of -

- | | | |
|-----|--|----------|
| (a) | The Secretary to Government, Planning and Co-ordination Department.. | Chairman |
| (b) | The Additional or Joint Secretary to Government Planning & Co-ordination Department. | Member |
| (c) | The Director, Bureau of Statistics and Economics, Orissa | Member |

The Deputy Secretary to Government, Planning & Co-ordination Department act as the Secretary of the Committee

(3) The Committee so constituted will meet as and when required for selection of officers for promotion to different posts of the Orissa Statistics and Economics Service.

Chapter III

Recruitment to O.S. & E. Service, Class - I

6. (1) Recruitment to the post of Joint Director shall be made by promotion from amongst the officers holding the post of Deputy Directors who have completed at least four years of service as such on the first day of August of the year in which the vacancy arises.

(2) Recruitment to the posts in the Orissa Statistics and Economics Services, Class 1 shall Ordinarily be made by promotion from amongst the officers holding the posts of Assistant Director, District Statistical Officer or other equivalent posts who have completed at least four years of service

On the first day of August of the year in which the vacancy arises, save in cases referred to in sub-rule (5) of rule-7.

Explanation—The expression“ equivalent posts” refers to posts carrying equivalent scales of pay.

Appointment to the Post of Joint / Deputy Director

7. (1) On a vacancy arising in any post of Joint Director or Deputy Director or any equivalent post, the names of all persons eligible for consideration for appointment as such by promotion in accordance with provisions of Rule 6 shall be arranged in the order of their seniority inter se and forwarded to the Commission along with their service records for the recommendation by the commission of a name or names for filling up the-vacancy or vacancies.

(2) The Commission shall consider the list along with the documents received from Government and recommend to Government a list of candidates as they consider suitable for appointment to the post or posts the list being arranged in the order of seniority inter se of the candidates.

(3) The selection of officers for promotion shall be based on merit-cum-seniority

Provided that the Commission shall be competent to interview such candidates in respect of whom they may have any doubt.

Provided further that the Commission shall be competent to assign to a person who in their opinion is of exceptional merit, a higher place in the list than of officers senior to him.

(4) The final list for selection of officers to be appointed shall be made by the Government after considering the recommendations made by the Commission.

(5) The list prepared by the Government in pursuance of sub-rule (4) shall remain in force ordinarily for one year from the date of its preparation by Government:

Provided that the Commission shall be consulted by Government to extend the validity of the list beyond one year if they consider so necessary for the exigencies of public service.

Provided that, the Government may at any time in consultation with the Commission for a grave lapse in the conduct or deterioration in the standard of performance of the duties of any person included in the list remove the name of such person from the list.

(6) Notwithstanding anything contained in the preceding sub-rules, where the Commission is of the opinion that there are no suitable officers for promotion, Government may fill up the vacancy or vacancies by direct recruitment held in accordance with rule 8.

Direct Recruitment of the posts of Joint Director / Deputy Director

(8) (1) Appointment to the posts of Joint/Deputy Director and equivalent posts by direct recruitment as provided under sub-rule (6) of rule 7 shall be made on the basis of a competitive examination which shall be held by the Commission:

Provided that the Commission may, depending on the number of vacancies, decide to select candidate candidates only through a viva-voce test in consultation with Government.

(2) The said examination shall be conducted in the manner indicated in the First Schedule.

(3) The date on and the place at which the examination shall be held, shall be fixed by the Commission.

(4) Candidates desirous of appearing at the competitive examination shall submit their applications to the Secretary to the Commission in their own handwriting in the prescribed form (obtainable from the Secretary to the Commission on necessary payment as specified in the advertisement issued by him) with full particulars and documents as required in the rules along with such other papers and documents as may be specified by the Commission so as to reach him by such date as may be fixed in the advertisement.

Conditions of eligibility

9. (i) In order to be eligible to compete at the examination, a candidate must satisfy the following conditions namely: -

(a) He must be a citizen of India or a displaced person from the former East Pakistan who has migrated to India on or after the first January 1964 or a repatriate from Burma/Ceylone who has migrated to India on or after the 1st June 1963/1st November 1964, or a subject of Nepal, Bhutan or Sikkim.

NOTE: - The eligibility of persons other than citizens of India shall be on such date as Government may by order appoint in that behalf.

(b) He should be able to speak read and write oriya

(i) Passed M.E. School Examination conducted by the Board of Secondary Education or equivalent examination or any higher examination conducted by the competitive authority with Oriya as a language subject; or

(ii) had Oriya as medium of examination in non-language subject at the matriculation Or equivalent examination which they have passed (to be specified by the Headmaster of the concerned High School recognized by the Board of Secondary Education),

(iii) passed in Oriya as a language subject in the final examination of Class VII above (to be certified by the Headmaster or Principal of the concerned Secondary School recognized by the Board of Secondary Education or by any other competent authority), or

(iv) passed the test in Oriya of M. E. Standard conducted by any District Inspector Schools in the State of Orissa.

(c) He is under forty years and over twenty-one years of age on the first day of August of year in which applications are invited :

Provided that the maximum age-limit may be relaxed in respect of the candidate belonging the Scheduled Castes and Scheduled Tribes and to such other categories to such extent as Government may by general or special order specify from time to time.

(d) He must have—

- (i) At least a second class Master's Degree in statistics or any of the following subject with statistics as a special paper from any university or institution recognized by Government : Economics, Applied Economics, Mathematics, and
- (ii) Such other general or special qualification, training or experience in any subject having a bearing on the processing and analysis of statistical data and economic intelligence as Government may specify.

Note : The candidates who possess Master's Degree in the subjects other than statistics and subjects mentioned in clause (d) (i) above are required to prove that they had Statistics as one of the papers in their Master's Degree. I

(e) He must be of good character and shall submit to the Commission along with his application certificates of good character from

- (i) The Principal or a Professor of the Institution in which he last studied and
- (ii) Two respectable persons (not being relations) who are well acquainted with him in private life and are unconnected with his college or university career.

Note : The candidates shall furnish with their applications copies of certificates of their academic qualifications beginning with and including the high school certificates or equivalent examination and of good character and mark sheet of their Master's Degree examination. The copies must be attested by a gazetted officer. The candidates shall have to produce the original of the certificates at the time of viva-voce test failing which they shall be disqualified. The candidates shall also furnish with their application such other papers or documents as the commission may

(f) A candidate must be of sound health, good physique and active habits and free from organic defects, physical as well as mental infirmity and shall be required to appear before the State Medical Board before appointment.

(2) A person already in service of Government shall be eligible to compete in the examination subject to he is being within the prescribed age-limit and being otherwise eligible and subject further that his application should reach the Commission (being received) through proper channel within such time as may be determined by the Commission:

Provided that the Commission may entertain advance copies of applications on the condition that original copies are forwarded or "no objection" certificates are received from the competent authority within such time as may be fixed by the Commission.

Disqualifications

10. (1) A candidate shall be disqualified by the Commission for admission to the examination, if-

(a) there is an attempt on his behalf to obtain support for his candidature, or

(b) He has not paid, except where Government by order have reduced or waived it, a non-refundable application fee of Rupees five (Rupee one and paise twenty-five only if the candidate belongs to any of the Scheduled Castes or Tribes), or

(c) he has not paid, except where Government by order have reduced or waived it, a non-refundable examination fee of Rupees fifty (Rupees twelve and paise fifty only if the candidates belong to any of the Scheduled Castes or Tribes) on receipt of intimation from the Commission about his eligibility to appear at the examination.

Note : The fees referred to in clauses (b) and (c) above shall be deposited in a Government Treasury or Sub-Treasury under such Head of Account as may indicated in the advertisement inviting applications for the examination or in the intimation referred to in clause (c) above, as the case may be. The Treasury chalan in respect of the application fee shall be enclosed to the application of the candidate and that in respect of the examination fee shall be furnished to the Secretary to the Commission by such date as the Commission may determine.

(2) The decision of the Commission as to the eligibility or otherwise of a candidate for admission to the examination shall be final and no candidate to whom a certificate of admission has not been issued by the Commission shall be admitted to the examination.

(3) No person who—

(a) has more than one wife living, or

(b) being a woman candidate, has already married a person who has one or more than one wife living at the time of such marriage, shall be eligible for appointment to the service:

Provided that the Government may, if satisfied that there are special reasons for doing so, exempt any person from the operation of this sub-rule such exemption is permissible under law.

Admission to the Examination

II. (1) A candidate found eligible by the Commission to appear at the written examination shall receive from the Secretary to the Commission a certificate of admission to the said examination along with an intimation as to the date and place of the examination and the time-table thereof.

(2) The certificate of admission shall be produced by the candidate before securing admission into the examination hall.

Forwarding of the list by the Commission.

12. (1) The Commission shall forward to Government a-list arranged in order of merit of those candidates who have qualified by such minimum standard of suitability as the Commission may fix including the candidates belonging to the Scheduled Castes and the Scheduled Tribes who satisfy the said minimum standard.

(2) If Two or more candidates obtain equal marks the order of merit shall be determined in accordance with the highest marks in aggregate secured by such candidate in the written examination should the marks secured by them in the written examination be equal, the order of merit shall be determined in accordance with the highest marks secured in any Master's Degree; Examination.

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3) The list referred to in sub-rule (!) shall be published for general information in the manner the Commission consider appropriate.

Filling up of vacancies

13 (1) Subject to the provisions of sub-rules (2) to (4) candidates will, in the order in which their names appear in the list referred to in rule 12 (1) be considered for appointment to the service.

(2) Notwithstanding anything contained in these rules reservation of vacancies set apart for being filled-up by direct recruitment or promotion in favour of candidates belonging to Scheduled Castes/Scheduled Tribes and the method of filling up of the reserved vacancies shall be as prescribed in "The Orissa Reservation of Vacancies in posts and services (for Scheduled Castes and Scheduled Tribes) Act, 1975 and rules made there under".

(3) In filling up the vacancies so reserved, candidates who are members of the Scheduled Castes and Scheduled Tribes shall be considered for appointment in the order in which their names appear in the list referred to in rule 12 irrespective of their relative ranks as compared with other candidates.

(4) If a sufficient number of candidates who are members of the Scheduled Castes of Scheduled Tribes is not available for filling up all the vacancies so reserved the remaining vacancies shall be filled up by other candidates in the said list and equivalent number of additional vacancies shall be reserved for candidates belonging to the Scheduled Castes and the Scheduled Tribes to be filled up on the result of the next examination.

Provided that if a sufficient number of suitable candidates belonging to the Scheduled Castes and Scheduled Tribes is not available as a result of the said next examination to fill all the reserved vacancies including the additional vacancies, the additional vacancies or such of them as are not filled shall lapse.

Penalty

14. A candidate who is or has been declared by the Commission guilty of impersonation or of submitting fabricated document or documents which have been tampered with or of making statements which are incorrect or false or of using or attempting to use unfair means in the examination or otherwise resorting to any other irregular or improper means for obtaining admission to the examination or for attempting to obtain support in his favour by any means may in addition to rendering himself liable to criminal prosecution, be debarred either permanently or for a specified period.

(a) by the Commission from admission to any examination or appearance at any interview held by the Commission for selection of candidates; and

(b) by the Government from employment under the Government.

Inclusion in the list confers right to appointment

15. The inclusion of a candidate's name in the list referred to in rule 12 shall confer no right: appointment unless Government are satisfied, after such enquiry, as may be considered necessary, the candidate is suitable in all respects for appointment to the service.

Chapter - IV

Recruitment to Orissa Statistics and Economics Services, Class - II

Method of Recruitment

16. Recruitment to the post in the cadre of the Orissa Statistics and economics Services, Class II shall be made by promotion in accordance with rule 17 from amongst officers holding the post posted in the Second Schedule and such other post as Government may from time to time specify in this behalf and by direct recruitment in accordance with rule 18.

Recruitment and Promotion

17. (i) The Government shall, as far as may be, fill up fifty per cent of the vacancies in this ' cadre arising after these rules come into force by promotion in accordance with Sub-rule 2 to (4) and shall be competent to determine the number of vacancies to be filled up in a year by promotion and by direct recruitment

(2) No person who has not obtained a Bachelor Degree from any University or Institution recognized by Government and has not completed at least five years of service against any of the posts mentioned in the second Schedule on the first day of August of the year in which the vacancies arises shall be eligible for consideration for promotion.

(3) On a vacancy due to be filled up by promotion arising in this cadre, the names of all persons eligible for consideration for appointment by promotion in accordance with sub-rule (2) shall be arranged in the order of their seniority inter se and forwarded to the Commission along with their Service records for the Commission's recommendation of a name or names for filling up the vacancy. /

(4) The provisions of sub-rules (2) to (5) of rule 7 shall mutatis mutandis apply to the selection -of persons for appointment by promotion to this cadre.

Direct recruitment to the Class II Service

18. (1) Appointment by direct recruitment shall be made for the balance of fifty per cent of the vacancies in this cadre arising after this rule come into force during a year, and for this vacancies referred to in sub-rule (4) of rule- 17 through a competitive examination held by the Commission in consultation with the Government.

Provided that the Commission may depending on the number of vacancies, decide to select candidates only through a viva-voce test in consultation with Government.

(2) Such competitive examination shall be held at such intervals as the Commission may in consultation with the Government from time to time and having regard to the likely number of vacancies in any year determine.

(3) The said examination shall be conducted in the manner indicated in the Third Schedule.

(4) The dates on and the place at which the examinations shall be held shall be fixed by the Commission.

(5) The conditions of eligibility shall be the same as specified in rule 9 *except* in so far as herein after mentioned, namely:

(a) Clause (c) of sub-rule (1) of rule 9 shall not apply and the candidate must be under 28 years and over 21 years of age on the first day of August of the year in which applications are invited; and

(b) sub-clause (ii) of clause (a) of sub-rule (1) of the said rule shall not apply

(6) The disqualification for admission to the examination shall be the same as specified in rule 10.

(7) The provisions of rule 11 to 15 shall *mutatis mutandis* apply to the conduct of the examination, filling up of vacancies and matters ancillary thereto.

Chapter V

Probation, Confirmation and Seniority

Probation and Probationers

19.(1) *Persons* recruited to the *Services* shall be appointed to the *Service* on probation.

(2) Every Officer appointed by promotion shall be on probation for a period of one year and every Officer appointed by direct recruitment shall be on probation for a period of two years and both cases the period of probation shall count from the date he joins the post to which he is appointed :

Provided that Government may, if they so think fit extend the period of probation in any case or class of cases.

(3) A probationer shall undergo such training as Government may from time to time determine

(4) If the Government are satisfied during the period of probation of an officer that his continuance in the Service would not be in public interest they may order the termination of the probation whereupon the period concerned shall, if recruited through a competitive examination deemed to have been removed from the service and if appointed on promotion be deemed to have been reverted to the post from which he was promoted.

Explanation The Government shall be the sole judge of a probationer's performance and its consistency with public interest.

Explanation II In the absence of an order declaring the probation to have been satisfactorily completed, the probation shall be deemed to have been extended till the date of the order or the date specified in the said order, as the case may be.

Confirmation

20. No officer appointed to the Service shall be considered for confirmation unless he has completed the probation satisfactorily, has passed the described departmental examination as set out in these rules and is considered by Government to be fit for confirmation.

Seniority

21. *The inter se* seniority of officers appointed in any cadre of the Service in any year shall be regulated in the following manner, namely : —

- a. Officer appointed to the Service by promotion shall be ranked *inter se* in the order in which their names are arranged by the Commission;
- (b) Officer appointed to the Service by direct recruitment shall be ranked *inter se* in the order in which their names are arranged by the Commission; and
- (c) as between officers referred to in clause (a) above on the one hand and those referred to in clause (b) on the other, the former shall in the year of recruitment *be on block* senior to the latter in that year.

(2) The seniority of officer appointed to the service in pursuance of rule 4 both as amongst themselves and vis-a-vis officers under the administrative control of the Planning & Co-ordination Department at: *the commencement* of these rules shall be as may be determined by Government in consultation with the Commission.

Chapter VI

Departmental Examination

Subject of the Examination

22. (1) Government may hold a departmental examination for persons appointed to the Service and the subjects of such examination, the syllabus therefore, the maximum marks for each subject, the minimum marks in each subject to be secured for purposes of passing the said examination and the date of holding such examination shall be as setout hereinafter; *:

Provided that different standards may be prescribed for different Branches of the Services.

(2) The failure to pass the departmental examination by the prescribed standard within a maximum of three successive chances available after the joining of the officer shall result in the stoppage of increments due after the third chance:

Provided that if a departmental examination is held within six months of the joining of the officer and the opportunity to sit in the examination is not availed of by him, it would not be counted as a chance

Provided further that if the candidate passes the departmental, examination in any subsequent chance he shall be allowed the pay which he would ordinarily have drawn had he passed the said examination within the prescribed number of chances but shall not be entitled to any amount on account of the increments withheld

(3) Notwithstanding anything in these rules, persons who have completed five years of service in any Branch of the Service on the date these rules come into force shall not be required to pass the departmental examination prescribed for that Branch

Constitution of Board

23. (1) There shall be constituted a Board of Examiners (hereinafter referred to as the Board of Examination (hereinafter referred to as the Board) consisting of—

- (a) *Secretary* to Government, Planning & Co-ordination Department
- (b) *Additional Secretary/ Spl. Secretary* to Government, G.A. Department.
- (c) *Additional / Joint Secretary* to Government, Planning & Co-ordination Department .
- (d) The Director, Bureau of Statistics and Economics, Orissa.

- (e) Evaluation Specialist, Planning & Co-ordination Department.
- (f) Joint Director, Plan Information Monitoring Evaluation of P & C. Department.
- (g) The Principal, Statistical Training Institute. Bureau of Statistics and Economics and such other member as may be nominated by the Government from time to time.

(2) The Secretary to Government. Planning & Co-ordination Department shall act as the President who shall preside at all meetings of the Board

(3) The Principal, Statistical Training Institute, Bureau of Statistics and Economics shall act as *ex officio* Member-Secretary of the Board.

Course of the Examination

24. (1) The examination shall be conducted by the Board and it shall be held at such place or places as the Board may decide.

(2) The examination shall be held twice every year at intervals of at least four months

(3) The date or dates of the examination shall be fixed by the President of the Board.

(4) The Board shall notify in the Gazette the exact date, place and programme of the examination at least six weeks before the date so fixed for the examination and the last date by which applications for admission into the examination may be received by the Board.

Application by the Probationer

25. (!) As soon as notification under sub-rule (4) of rule 24 is made, a probationer who is required to pass the examination, may submit an application in the form specified in Appendix 1, as set out in these rules, addressed to the Secretary of the Board so as to reach him not later than the date specified by him in the notification.

(2) Any application received after the said date shall not be considered.

Provided that the Secretary may, for good and sufficient reasons r. to be recorded in writing admit into the examinations a probationer who failed " to submit an application within the prescribed date.

(3) The Secretary shall prepare a list of probationers who have been admitted into the examination and no one whose name does not appear in the list shall be allowed to sit for the examination.

Subjects of the Examination

26. (1) The examination, which shall be in writing, only, shall comprise of the following subjects:

Examination, carrying maximum marks of 500 distributed in seven papers.

Paper	Subject	Maximum Marks.
1	Applied Economics with application of Statistical Methodology	100
II	(a) <i>Official</i> Statistics	50
	(b) Applied Statistics	50
III	Practical	50
IV	Service Rules	50
V	Accounts	50
VI	Indian Constitution	50
VII	A dissertation on any Statistical or Economic problem	- 100

(2) Papers I to III shall be of three hours duration whereas Papers IV to VI shall be of one hour duration. There is no such time limit for dissertation.

(3) A probationer shall answer the papers in English unless otherwise directed.

(4) All the papers should be written legibly, in default of which a deduction to the extent of not more than five per cent as decided by the Board of Examiners shall be made at the time of assessment of papers

(5) Credit will be given for orderly, effective and exact expression combined within due economy of words in all the subjects. Credit will specially be given for neatness, method of approach to the problem and accuracy in calculations in practical examination.

(6) The syllabus for the subjects mentioned in sub-rule (1) of Rule 29 above shall be as follows:

(I) Applied Economics with Application of Statistical Methodology

Design for (a) descriptive study and (b) studies of Casual hypothesis— practical problems arising in planning of a survey. Details of information to be collected—various method of collecting information—methods dealing with non-response. Pretest and pilot surveys.

Problems arising in the execution of a survey—Types of problems—Administrative organization—listing and constructing a schedule and a question-nairee-section, training and supervision of field organization—control of accuracy of field work—Arrangement for follow-up in case of non-response.

Drafting of schedules. The essential information and the non-essential, statistical significance and economic significance of data tabulated. Tabulation by economic categories and by geographical regions. The analysis of data.

Drafting of repors

National Income and State income estimation, Different sectors of National/State Income, Methods of estimating National/State Income, Inter-sectoral flows, problem of regional income estimates and Inter-sectoral flows, problems of regional income estimates and Inter-industry table. Applications of input-output analysis

Application of demand function, Statistical analysis of demand with the help of time series and family budget data. Agricultural prices—Reaction of supply and demand to changes in incomes and prices the short and long period curves, the demand curve, the instability in agriculture, types of fluctuation, seasonal annual and cyclical fluctuations.

(II) This paper is divided into two parts, each part carrying a maximum mark of 50.

a. Official Statistics—

Evaluation of the Statistical system in the Centre and States sources and nature of official statistics on population, agriculture and animal husbandry, Industries, labour,, commerce, trade, transport, price, education, local bodies, housing, finance, planning and national and State

Censuses on human population, Cattle population, Agriculture, Industries

Sample surveys of current interest—National Sample Survey, Agricultural Surveys, Annual Survey of Industries, Sample Census of Population, Debt and Investment Survey and such other surveys of importance at National and State levels

{b} Applied Statistics-

Use of sampling methods in censuses and surveys—The requirements of a good sample, avoidance of bias in selection methods of reducing the sampling error. Structure of various types of samples—Random sample, stratification with uniform sampling fraction, multiple stratification,

stratification- with a variable sampling fraction, systematic samples. Multistage sampling, multiphase sampling, balanced samples. Sub-sampling and repetitive surveys. Interpenetrating sub-samples. Estimation of mean and population total in respect of these processes.

Use of random numbers, various methods of drawing probability, proportional to size samples.

Index numbers of prices and quantities. Different types of index numbers, e.g., index number of wholesale prices and cost of living index numbers. Different types of tests.

The components of time series, trend fitting by moving averages and least square method, interpretation of economic time series.

Life table, its construction and properties, derivation of annual and central rates of mortality. Rates and ratios of vital statistics.

III. Practices—

The candidates will be required to solve some statistical problems with the help of calculating machines.

IV. Service Rules—

Questions shall be asked from the following books and they will aim at testing the knowledge on the broad aspects of the rules —

1. The Orissa Service Code
2. The Fundamental Rules and Supplementary Rules
3. The Government Servants' Conducts Rules
4. The Practice and Procedure Manual
5. The Civil Service Regulation
6. The Classification, Control and Appeal Rules.

V. Accounts—

Questions shall be asked from the following books. The questions shall involve sample calculations to test the knowledge of a probationer in the basic financial rules and his capacity to refer to these rules.

1. The Orissa Traveling Allowance Rules
2. The Orissa Treasury Code

3. The Orissa General Financial Rules
4. The Orissa Budget Manual
5. An Introduction to India Government Accounts and Audit (Chapters 1 to 4, 6 and 7)

VI. Indian Constitution

Questions will be set on the broad aspects of the Constitution with *special* reference to the following Articles, which a probationer shall be able to answer without detailed study.

Articles 37 to 51, Articles 107—117, Articles, 194—207, Articles 266—283 and the Seventh Schedule of the Indian Constitution.

VII. A dissertation on any Statistical or Economic problem—

- (a) A probationer shall be required to submit a dissertation not exceeding 50 pages on any statistical or economic problem.
- (b) *The* title and a brief synopsis of the dissertation should be submitted to the Secretary of the Board of Examiners for approval within - 6 months of joining for direct recruits and within six months of coming into force of these rules for candidates-already *in* service but are required to pass the Departmental Examination as provided under rule 24 of the Orissa Statistics and Economics Service Rules, 1979.
- (c) The approval of the Board of the subject of dissertation shall be communicated to the probationer within one month of the date of submission of the title and synopsis.
- (d) *The* dissertation should be submitted to the Secretary of the Board of Examiners at least fifteen days before the date of examination.
- (e) The dissertation will be required to be typed and submitted in duplicate.

Appointment of Officers to set question papers

27. (1) The Board of Examiners shall appoint suitable officers of the 'State or the Central Government of the Universities and Research Organizations to set question papers and to examine the answer books thereof.

(2) No person who is appointed to set questions on any paper shall be appointed to set questions on any other paper.

(3) Every question paper-setter shall send the question paper to the Secretary of the Board of Examiners by name in double cover properly sealed so as to reach him on or before the date fixed by the Secretary of the Board.

Arrangement to conduct the examination

28. The President of the Board shall be responsible for making all arrangements for conducting the examination and shall be competent to issue instructions for guidance of paper-setters, invigilators and examiners.

Penalties

29. (1) If an examinee is found to be using or have used unfair means in the examinations, the following penalties may without prejudice to any other action that may be taken against him by the Government be imposed on him, namely:

- (a) Cancellation of result of examination in any paper or papers,
- b. *Debarring* from appearing at the examination in the remaining papers in *same* chance,
- c. *Debarring* from appearing at the examination in subsequent chances not exceeding two successive chances other than that specified in clause (b) of sub-rule

(2) The Secretary of the Board of examiners by himself on behalf of the President of the Board shall be competent to inflict penalties specified above.

(3) Orders passed by Secretary, President or Board shall be final.

Submission of Answer Books

30. (1) Each examiner shall submit the answer books with mark sheets properly authenticated in double cover properly sealed to the Secretary of the Board within 2 period of one month from the date on which the answer books are received by him.

(2) The Secretary shall get the marks tabulated by an officer specially appointed by *the President* for this purpose.

Passing the Examination by the Probationers

31.(1) a Probationer shall be deemed to have pass-id the Examination in any subject in lower standard if he secured at least forty-five per cent of marks in the examination of that subject and by the higher standard if he secured at least sixty per cent of the marks in the examination

Explanation The prescribed standard as provided in Rule 22 (2) of the Orissa Statistics and Economics Service Rules for the drawal of increments shall be the lower standard.

Explanation II For the purpose of promotion as provided in Rules 7 (2) and 17 (3), |L the ^prescribed standard shall be the higher standard.

(2) A probationer may be permuted to pass the examination in installments.

Provided that he shall not be deemed to have passed the examination in a particular standard unless he has passed in each of the subjects prescribed for the Departmental examination in that standard

Explanation If a probationer secures marks of higher standard in any of the subject or subjects he shall not be required to take the examination in that subject or those subjects in subsequent chances which he may have to take for securing marks of higher standard in the rest for the paper or papers.

Tabulation of Marks and Publication of Results

32. (1) The Secretary of the Board shall place the tabulated marks before the Board for consideration

(2) With the approval of the Board, the Secretary of the Board shall publish the results ordinarily within two months from the last date of the examination in the Gazette.

Passing the Examination

33. (1) A probationer who has passed the examination shall be deemed to have passed it on the last day on which the examination was held or if he has passed the examination by installments, on the last day of the examination in which he finally passed

(2) The name of probationers who have passed the examination shall be published by the Secretary of the Board in the Gazette.

Meeting of the Board

34. The Secretary of the Board with the approval of the President shall convene meetings of the Board from time to time for transacting any business under these rules.

Preservation of Answer Books, marks sheets and tabulation registers

35. All answer papers; mark-sheets and tabulation registers shall be preserved for a period of three calendar years immediately following the year of the examination.

Chapter VII

Miscellaneous

Relaxation

36. If the State Government are of opinion that it is necessary or expedient to do so they may, by order, for reasons to be recorded in writing, and in consultation with the Commission, relax any of the provisions of these rules in respect of any Branch or category of persons or posts.

Interpretation

37. If any question arises relating to the interpretation of these rules, it shall be referred to the Government for decision.

Repeal and Savings

38. All rules, orders and instructions hitherto in force pertaining to the subject-matter of any of the provisions of these rules to the extent of their repugnancy are hereby repealed.

Provided that save as otherwise specified in these rules, any order made or action, taken under the rules, orders and instructions so repealed shall be deemed to have been made under these rules and shall continue to have force and effect.

The First Schedule

[See Rule 8 (2)]

1. The competitive examination for filling up, by direct recruitment, posts of Deputy Director and equivalent posts in the Orissa Statistics and Economics Service, Class-I shall comprise of a written examination and a viva-Voce test. The written examination is comprised of 3 papers. The subjects of examination and the maximum marks for each are indicated below: —

Subject	Maximum marks
(/) An essay in English on a subject, requiring Knowledge of current economic issues.	50
(//) Any one of the following subjects (two papers in each subject)— Statistics or Economics or Mathematics: - —	300

2. The maximum marks in the written examination are thus, 350. The viva voce shall carry 150 marks. The papers shall be of Post-Graduate standard except the Essay paper, which shall be of Degree standard.

3. A candidate shall answer the papers in English unless otherwise directed. The papers shall be of 3 hours duration except the Essay paper, which shall be of 1/2hour duration. There is no time limit for the viva voce test.

4. The provisions of Classes 6 to 10 of the Third Schedule shall *mutatis mutandis* apply to the examination. In addition, the viva voce test will be directed at a thorough assessment of the special qualification, training of experience as specified in the advertisement,

5. The questions on Mathematics/Statistics/Economics shall relate to the subjects outlined under clause 11 of the Third Schedule.

The Second Schedule

(See Rule 16)

1. Statistical Investigator
2. Field Controllers and Senior Economic Investigator of the erst while Evaluation Cell of P & C Department which existed prior to 27.01.1979
3. Assistant District Statistical Officer the date on which the P & C Department was reorganized.
4. Field Supervisor
5. Supervisor
6. Assessment Inspector
7. Commercial Intelligence Investigator
8. Economic Investigator
9. Research Assistant
10. Machine Room Supervisor

The Third Schedule

[See Rule 18(3)]

I. The competitive examination for filling up, by direct recruitment, posts of Assistant Director, District Statistical Officer and equivalent posts in Orissa Statistics and Economics Service, Class-II shall comprise of a written examination and a viva voce test. The written Examination shall comprise of 5 compulsory papers and 2 optional papers. The subjects of examination and the maximum marks for each are indicated below: —

Subjects	Maximum Marks
I. Compulsory subjects (one paper in each subject) —	
(i) General English which shall include an essay carrying 50 marks	100
(ii) General Knowledge	100
(iii) Mathematics	100
(v) Statistics.	100
(v) Economics.	100

II. Optional subjects (two papers in each subject)—

(i) Mathematics, or		
(ii:) Statistics, or		300
(ii) Economics		

2. The maximum marks for the written examination are, thus, 800. The viva voce test shall carry 200 marks.

3. The compulsory papers shall be of Degree standard except Mathematics which shall be of Intermediate Standard. The Optional papers will be of Post-Graduate standard.

4. A candidate shall answer the papers in English unless otherwise directed.

5. All papers shall be of 3 hours duration. There is no time limit for the viva voce test.

6. The Commission shall summon for the viva voce test all candidates who have appeared at the written test and have secured the minimum qualifying marks to be prescribed by the Commission, at their discretion, in any or all of the subjects.

7. If a candidate's handwriting is not easily legible, deduction which may be to the extent of ten per cent of the marks otherwise accruing to him may be made.

8. From the marks assigned to a candidate in each subject such deduction may be made as the Commission may consider necessary in order to ensure that no credit is allowed for merely superficial knowledge.

9. Credit shall be given for orderly, effective and exact expressions combined with economy of words and persuasiveness of argument.

10. The candidate will be interviewed by the Commission who will have before them a record of his career. The Commission may, if they consider if necessary, secure the assistance of experts and the selection of experts will be at their discretion. The candidate may be asked Questions on any subject studied by him for the Bachelors or Masters Degree examination as well as on matters of general interest. The object of the interview is to assess his suitability for the service with particular reference to his intelligence and alertness of mind and the range of his outlook.

11. The question in the compulsory papers (except General English and General Knowledge) may relate to the following subjects.

(i) MATHEMATICS

The questions will be of Intermediate standard. The paper will cover the following topics:

Variation, surds and imaginary quantities, arithmetics, geometric and harmonic progressions, theory of quadratic progressions, theory of quadratic equations, permutations and combination binomial theorem for any index, exponential and logarithmic functions, determinants.

Trigonometrical identities, trigonometric equations, relation between sides and angles of a triangle, solutions of triangles, inverse trigonometrical functions-

Functions, limits and continuity of functions, differentiation, successive differentiation, standard methods of integration, integration of transcendental and trigonometric functions, definite integrals. The straight lines, equations of the straight line in different forms, intersection of two straight lines, perpendicular distance of a point from a straight line, homogeneous equations of the second degree. The equation of a circle, tangents and normals to a circle, pair of tangents from a point to a circle,

parametric equation of a circle, equations of the parabola, ellipse, hyperbola and rectangular hyperbola equation of their tangents and normals, parametric equations.

(ii) STATISTIC

The questions will be of B. A. (Pass) standard. The paper will cover the following topics: -

Newtons and Lagranges formula for interpolation, inverse interpolation. Random variable, theorems of total and compound probability, expectation, elementary ideas about probability in continue.

Frequency distribution, measures of central tendency and dispersion, skewness, kurtosis, moments, moment generating functions, characteristic functions, curve fitting by method of moments and least squares, Binomial Poisson and Normal distributions, correlation and regression, Beta, Gamma, χ^2 , t, F, z, distributions their properties and uses, tests of significance based on these distributions, analysis of variance Components of time series, trend fitting by moving averages, and least square method, concept of Index Numbers, quantity and price indices, definition of rates and ratios in vital statistics, simple random sampling, sampling and non-sampling errors, elementary ideas on complete randomisation and randomised block designs

III. ECONOMICS

The questions will be of B. A. (Pass) standard. The paper will cover the following topics:

Definition and scope of Economics, nature of economic laws, consumption, production, value and distribution, value of money, quantity theory and its limitations, inflation and deflation their causes and effects, how banks create credit, investment policy of a bank, functions of Central banks, different methods of credit control, principles of taxation — incidence of taxes, principles of public expenditure, kinds of public debts and methods of debt repayment. Problems of growth of population in India and population policy, Indian agriculture, causes of its low productivity, Land reform measures in the Five-Year Plans, Indian's food problem, industrial policy of India since 1948, Reserve Bank of India and its functions. Co-operative movement in India and cooperative farming, Planning in India—objectives and achievement of the Five-Year Plans.

12. The candidates will have to choose one optional subject out of the 3 indicated in the table under clause I above. Each subject shall comprise two papers and each paper shall carry 150 mark's. The optional papers shall contain questions on items specified below :

(i) MATHEMATICS PAPER (1)

Differential equations: Ordinary differential equations with more than two variables, partial differential Equations, Partial differential Equations of the second and higher orders.

Vector: —

Tensor: Vector, Bases, and orthogonal transformations, the definition of a tensor, the Algebra tensors.

Real analysis—Dedekind's Axiom, Sequence and limits. Continuity and Discontinuity, properties of continuous functions, Heine-Borel Theorem, Mean Value theorem, Remainders in Taylor's Series, Riemann Integration, Necessary and sufficient conditions of Integrability, properties of definite integrals, Differentiation and integration of the definite integrals, General principles of convergence, Absolute convergence, Uniform convergence, power series, Abel's Continuity theorem and its converse. Convergence of improper integrals, Differentiation and integration of infinite integrals, Sets of Points, Measurable functions, the Lebesgue integral of a bounded function, Bounded convergence, Comparison between Riemann and Lebesgue integrals the Lebesgue Integral of an unbounded function, General convergence theorem.

Advanced Calculus— Partial differentiation, Application of partial differentiation, Stieltjes- integral, Multiple integrals, Line and surface integrals, The Gamma function, Evaluation of definite integrals, Fourier series, Dirichlet's integral, Convergence of Fourier series

Solid Geometry— Area of plane sections of conicoids helicoid, sections, Umbilics, generating lines, Central points and parametric distribution.

(II) MATHEMATICS - PAPER

Elementary complex Analysis— Complex numbers. Their geometric representation,, Definition of a function of a complex variable, Bilinear and other simple transformations, uniformity and multiformity of functions, Differentiation of a function of a complex variable, Cauchy-Riemann differential equations, Power series as analytic function, zeroes and poles of functions, Cauchy's theorem for simple contour, and functions which are analytic inside and on the contour Morera's theorem, Cauchy's fundamental theorem, Liouville's theorem, Taylor series and Laurent's series. Fundamental theorem of Algebra, Theory of residues, Application to definite integrals.

Topology: Sets, Closed and open sets in Metric spaces, Homeomorphism continuous mapping.

Modern Algebra—Numbers and sets, Groups, Rings and Fields

Differential Geometry—Curves in space, Envelopes, Curvatures of surfaces, Asymptotic lines.

Statistics and attraction potential—Forces in three dimensions, Principles of virtual work in three dimensions work function of a body, positions of equilibrium of a system stable and unstable equilibrium of a system, stable and unstable equilibrium, Poinsot's central axis. Null points, Null planes, Attraction and potential, The law of gravitation potential and its physical interpretation, Equipotential surfaces and lines of forces ; Attraction of a rod, a circular disc, and attraction and potential at internal and external points of sphere, a spherical shell, and a lone cylinder, mutual work of two attracting systems, loss of potential energy of a gravitating system. Theorems Laplace, Poisson and Gauss, tube of force. Theorems on potential, calculation of distribution of matter when potential is given potential of a body at a distant point.

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Dynamics — Rigid dynamics, Moments and products of inertia, Momental ellipsoid. Momental ellipse, equipotential systems, principal axes, 'D' Alembert's Principle, General Equations of motion, Independence of translation and rotation, impulsive forces, General equations of motion of a body in three dimensions, principle of conservation of momentum and conservation of energy, Generalized Co-ordinates, Lagrange's equations, Lagrange's equations for blows, small oscillations.

(iii) Statistics Paper- I

Probability—Definition of probability. Random variables. Marginal joint and conditional probability distributions. Addition and multiplication rules, Moments of a distribution. Discrete and continuous distributions. Characteristic functions : Levy Inversion theorem. First limit theorem. Convergence in probability.. Bernoulli's theorem Chebyshev's Inequality, Weak Law of large numbers, Repeatable, experiments, Sample space. Frequency' interpretation of probability, Central limit theorem, Kolmogorov's Law of large numbers, General idea of the second limit theorem, Probability in continuum

Numerical analysis and Difference equations—choice of S1T2I2. multistage sampling, cluster sampling, systematic sampling, double sampling Operators D. E. and relations between them Interpolation. Equal and unequal intervals..Formulas of Newton, Lagrange, Gauss, Stirling and Bessel with remainder terms. Sub-tabulation. Inverse Interpolation. Double Interpolation.

Numerical differentiation and numerical integration. Accuracy of the quadrature formulas. Nulers' formula of summation and quadrature. Lubbocks and Wool hourses formulas Mechanical caubature. Solution of numerically algebraic equations. Grceffes root-squaring method (Real unequal roots). Newton Raphson and Iteration methods, Solution ' of simultaneous Linear equations. Zero differences. Compound functions.

Descriptive Statistics—Collection and classification of data, Diagramatic representation continuous and discrete values, Theory of attributes and their Association. Partial association. Manifold classification, Frequency distributions, Measures of location and dispersion, moments» - cumulate, Measures of skewness and kurtosis.

Standard Distributions—Binomial, Poission, Normal, Negative; Binommmial, Rectangular Distributions, Cauchy's Beta and Gamma distributions and their properties, correlation and Regression, simple. Partial, multiple Curve fitting including orthogonal Poly.romials, Pearson distributions.

Large sample Theory—Standard errors, and large sample tests, - X^2 —tests of independence and tests of goodness of fit. Sampling Distributions—Concept of sampling distribution of moan; variance, correlation co-efficient, Regression coefficient from normal distribution. Distributions of T. F., and X^2 Fisher's Z—transformation, tests based upon the above distributions and tests of homogeneity of variances and correlations, Distribution of order Statistics.

Multivariace Analysis—Multivariate distributions including Wishart's and Hotelling's distributions and related tests, Discriminate analysis and connonical correlations.

Estimation—Point estimation, properties of estimators, consistency sufficiency, efficiency, methods of estimation—properties of maximum likelihood estimators, interval estimation confidence intervals and fiducial inference.

Tests of hypothesis—Simple and composite hypothesis, Neyman Pearson; theory choice of critical regions based on power properties, similar regions and their constructions using sufficient statistics for the case of one musance parameter Elements of the several parameter case, likelihood Ratio test. Sequential test, procedures Wald's sequential probability ratio test OC and ASN functions, Sequential tests relating to the mean, standard deviation of a normal *distribution and* for binomial proportion.

(iv) STATISTICS PAPER (II)

Design of Experiments—Kubear estimation and Markoffs theorem, analysis of variance and covariance

Principles of experimental designs—Randomisation, replication and local *control* completely Randomised design, Randomised block design, Latin squares, Gracco Latin square, missing plot technique, cross over design.

Factorial experiments, analysis of 2nd and 3rd designs, confounding in factorial systems, Split plot designs. Balanced incomplete block designs, partially balanced incomplete block designs and simple Latin design.

Sample surveys— Place of sampling in census and survey work. Concept of framed and sampling unit.

Sampling techniques—Random sampling, stratified sampling, choice of strata variable multistage sampling, cluster sampling, systematic sampling, double sampling, variable sampling fraction sampling with probability proportional to size, multiphase sampling, inverse sampling.

Estimation procedures—Estimates of population total and mean: bias in estimates standard error of estimates Ratio regression and product estimates.

Optimum designs—Cost and variance functions. Use of pilot surveys. Optimum size and structure of sampling units. Optimum allocation in stratified, multiphase and multistage designs, Optimum replacement fraction in repetitive surveys.

Non-sampling errors and their control, theory of non-response, interpenetrating samples.

Design and organization of pilot and large scale sample surveys, operational procedures for drawing samples, Use of random sampling numbers; various methods of drawing p. p. s samples. Procedures for collection and tabulation of data. Analysis of survey data and *preparation* of reports. Index numbers and their uses, theory of index numbers reversal tests, index numbers of prices and quantities, wholesale price and cost of living-indices, economic time series, its analysis and interpretation, its components, method of trend determination, trend eliminations and its effects, variate difference methods, methods of determination of seasonality tests randomness, correlogram and periodogram analysis.

National and international statistical systems, United National Statistical agencies, function of statistical offices in Central Ministries and States, details of India statistics relating to population, vital statistics. Agriculture, Animal Husbandry, Forestry, Fishery, Mining, Industry, Transport, Communication, Education, Health, Labour and Employment, Prices, Public Finance Money and Banking, National Income and Planning.

The life table, its construction and properties, Make hem's and Gomperts curves, derivation, of annual and central! rates of mortality national life tables, U. N. model life tables. Abridged tables, stable population, stationary population, crude fertility rates, specific fertility rates goods and net reproduction rates, crude mortality rates infant mortality rates, mortality by cause of deaths standardized rates, population projections—mathematical and component methods, logistic curve fitting.

Theoretical basis of quality control in industry, tolerance limits, different kinds of contract charts, group control charts, acceptance sampling, single, double and sequential sampling plan use of Dodge—Roming and other tabler.

(v) ECONOMICS PAPER (I)

Scope and methodology;
Equilibrium analysis;

Theory of consumer's demand. Indifference curve analysis, Revealed preference approacha Consumer's surplus.

Theory of production factors of production, Production Functions, Laws of returns. Equilibrium of the firm and the industry.

Pricing under various forms of market organization. Pricing in a socialist economy, Pricing in a mixed economy. Theory of distribution, pricing of factors of production, theories of rent, wages interest and profit, Macro distribution theory, share of wages in national income, profits and economic progress Inequalities in income distribution

Theory of employment and output—the classical and neoclassical approaches, Keynesian theory of employment. Post-Keynesian developments.

Economics fluctuations, Theories of business cycle Piscal and momentary policies for control of Business cycles.

Welfare economics: scope of welfare economics; classical and neoclassical approaches; New welfare economics and the compensation principles: optimum conditions: policy implication.

Concept of economic growth and its measurement, theories of growth. Growth model.

(vi) **ECONOMICS PAPER (II)**

Indian Economic Problems

Problems of growth of population in India and population policy

Indian Agriculture: Causes of its low productivity; Land reform measures in the Five-Year Plan.

Organization and defects of the Co-operative Movement in India—Co-operative Farming.

India's Food Problem.

Reorganization of Agricultural Credit

Small-Scale and Cottage Industries Need for their development and their problems

Trade Union Movement in India

Composition and direction of India's Foreign Trade—Balance of payment—Export policy

Reserve Bank of India -Its functions

Planning in India—Objectives, achievements of the Five-Year Plans in India

Rural reconstruction

Special programmes for development of backward areas

Gross Domestic Products and State Income estimation Economic Indicators.

By order of the Governor

S. M. PATNAIK

Secretary to Government

APPENDIX I
(See sub-rule (1) of Rule 25)
FORM OF APPLICATION FOR ADMISSION INTO THE
DEPARTMENTAL EXAMINATION

From

Shri/Smt.....
(Name in full in block letters)
Designation.....
Postal Address.....

To

The Secretary, Board of Examiners, Bureau of Statistics and Economics, Orissa
Bhubaneswar.

Date.....

Sir,

With reference to Board of Examiners Notification No.....dated..... I request that I may be allowed to appear at the departmental examination to be held in.(here specify month and year) in the following papers, namely: —

- 1
- 2
- 3
- 4
- 5
- 6
- 7

2. I have already passed in the papers, the details of which are specified below—

No. of the paper	Subject	Standard by which the candidate has passed the examination.	Notification No
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Yours faithfully

(Signature in *full*)

Designation and Official Address