



RAN-2303081201040005

M.Sc. (Statistics) (Sem. I) Examination November - 2025

Official Statistics

Time: 3 Hours]

[Total Marks: 70

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Attempt all questions.
- (3) Attempt any 2 bit of each question
- (4) Each question carries 14 marks.
- (5) Use of scientific calculator and statistical table are permitted.

Seat No.:

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Student's Signature

- Q-1.** (a) Discuss the major uses and users of official statistics with examples.
(b) Discuss the role, functions, and activities of Central and State statistical organizations in India.
(c) Explain the legal acts and provisions that provide support for the compilation and dissemination of official statistics in India.
- Q-2.** (a) How can consumer price index (CPI) be applied to revise salaries, pensions, and dearness allowance of employees?
(b) Explain how periodicity and agency involvement in index numbers ensure their usefulness for economic decision-making
(c) If the government wants to assess literacy and dropout rates, how can education statistics and related surveys be applied?
- Q-3.** (a) Suppose the government wants to analyze household consumption patterns. How can the expenditure approach of national income be applied?
(b) How can the production approach be used to measure the contribution of the service sector in India's economy?
(c) How can a Lorenz curve be applied to show the extent of income inequality in rural and urban areas?
- Q-4.** (a) Suppose the government wants to estimate the need for new schools. How can census data on age distribution be applied?
(b) How can gender-disaggregated data be applied to measure wage inequality in the labour market?
(c) How can data dissemination systems ensure wider application of census and survey results in research and policy making?
- Q-5.** (a) Suppose you are evaluating the nutritional status of children. How can surveys like NFHS (National Family Health Survey) be applied?
(b) How do women and child statistics help in implementing welfare schemes like ICDS and Beti Bachao Beti Padhao?
(c) Describe the stages of compilation, collection, processing, analysis, and dissemination of official statistics.