

RAN-2303081801040004

M.Sc. (Applied 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) Explain the Laspeyres, Paasche, and Fisher's index numbers and discuss their relative merits.
(b) Discuss the significance of price statistics and the agencies responsible for their compilation in India.
(c) Define index numbers. Explain why index numbers are considered as "economic barometers."
- Q.2.** (a) What are the limitations of official statistics? Illustrate with examples.
(b) Discuss the functions of the nodal ministry of India (MOSPI) in the official statistical system.
(c) Distinguish between the roles and responsibilities of NSSO and CSO.
- Q.3.** (a) Explain the role of national income data in evaluating health and education sectors.
(b) What is the Lorenz Curve? How is it used to measure inequality?
(c) Describe the strategy adopted in India for collection and release of national accounts data.
- Q.4.** (a) Discuss the agencies involved in conducting population census in India and their roles.
(b) Define socio-economic indicators and explain their importance in policy formulation.
(c) What are special data dissemination systems? Discuss their significance in research.
- Q.5.** (a) Discuss the limitations of national income measurement in a developing country like India.
(b) Describe the stages of compilation, collection, processing, and analysis in the preparation of official statistics.
(c) Write a short note on women and child-related statistics and their importance in welfare programs.