

# **RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER**

## **SYLLABUS FOR COMPETITIVE EXAMINATION FOR THE POST OF ASSISTANT STATISTICAL OFFICER DEPARTMENT OF ECONOMICS & STATISTICS**

### **Part-A-General Knowledge**

- 1) Geography, Natural Resources and Socio- Economic Development of Rajasthan:** Major physiographic divisions of Rajasthan, Vegetation and Soil, Natural Resources - Minerals, Forest, Water, Livestock, Wild Life and its Conservation, Environmental Conservation, Major Irrigation Projects, Handicrafts, Development Programmes and Schemes of the State Government, Various Resources of Power and Population in Rajasthan.
- 2) History, Culture and Heritage of Rajasthan:** History of Rajasthan, Famous Historical & Cultural Places of Rajasthan, Folk Literature, Folk Art, Folk Drama, Lok Devian- Devata, Folk Music and Dance, Fairs & Festivals, Customs, Jewellery, Famous Forts. Temples and Hawelies. Saints of Rajasthan, Paintings- Various Schools in Rajasthan. Major Tourist Centres and Heritage Conservation.
- 3) Current Events and Issues of Rajasthan and India, major development in the field of Information Technology & Communication.**

### **Part-B- Statistics, Economics and Mathematics**

- 1) Collection, Classification, Tabulation and Diagrammatic Presentation of data.** Measures of Central Tendency, Dispersion, Moments, Skewness and Kurtosis.
- 2) Correlation and Regression:** Correlation and its coefficients, Linear Regression.
- 3) Testing of Hypothesis:** Concept of Hypothesis, Types of error in Testing, Critical Region and Level of Significance, Small and Large samples.
- 4) Design of Sample Survey:** Sampling Unit, Sampling frame, Sampling fraction, Sampling with and without replacement, Population Parameter and Sample estimator, Efficiency, Accuracy and Precision, Sampling and Non Sampling errors, Simple random sampling, Stratified random sampling, Systematic sampling, Cluster sampling, Multistage sampling.
- 5) Time Series Analysis:** Components, Measurements of Trend, Seasonal, Cyclical and Irregular variations.

**6) Index Number:** Uses, types and limitations of index numbers, construction of index numbers, simple and weighted aggregate method, Simple and weighted average price-relatives, Chain base index numbers, Base shifting, Cost of Living index numbers.

**7) Vital Statistics:** Collection of Vital Statistics- Measures of Mortality and Fertility rates, Life tables, Population growth.

**8) System & Statistical Organization in India & Rajasthan :** System of National Accounting (SNA), Ministry of Statistics and Programme Implementation (MoS&PI), Central Statistical Office (CSO), National Sample Survey Organisation (NSSO), Registrar General of India (RGI), NITI AYOOG, Reserve Bank of India (RBI) and Directorate Economics & Statistics, Rajasthan (DES).

**9) 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.

**10) Economy of Rajasthan:** Agriculture, Industry, Livestock, Infrastructure Development, Public Finance, State Income, Poverty, Unemployment and Human Development.

**11) Elementary Mathematics:** Decimal fraction, Percentage, Rates & ratio, Average, Simple and compound interest, Square roots.

**12) Basic of Computer:** MS Word, MS Excel and Power Point Presentation, Basic Knowledge of Internet.

#### **Scheme of Examination**

S. No.	Subject	No. of Questions	Total Marks	Examination Duration
Part-A	General Knowledge	30	30	2 Hours
Part-B	Statistics, Economics and Mathematics	70	70	
	Total	100	100	

1. The competitive examination shall carry 100 marks and 100 questions of Multiple Choice Type questions.

2. There shall be one paper. Duration of Paper will be Two hours.

3. Negative marking shall be applicable in the evaluation of answers. For every wrong answer one-third of the marks prescribed for that particular question shall be deducted.

4. The minimum qualifying marks shall be 40% of total marks of the examination.

5. The Standard of the paper will be that of a Master's Degree Level.

Explanation: - Wrong answer shall mean an incorrect answer or multiple answers.

उक्त पद हेतु आयोजित की जाने वाली परीक्षा के लिए ओ.एम.आर. उत्तरपत्रक में प्रश्नों के विकल्प भरने के संबंध में विशेष निर्देश:-

1. Each question has five options marked as 1, 2, 3, 4, 5. You have to darken only one circle (bubble) indicating the correct answer on the Answer Sheet using BLUE BALL POINT PEN.

2. It is mandatory to fill one option for each question.

3. If you are not attempting a question then you have to darken the circle '5'. If none of the five circles is darkened, one third (1/3) part of the marks of question shall be deducted.

4. After solving question paper, candidate must ascertain that he/she has darkened one of the circles (bubbles) for each of the questions. Extra time of 10 minutes beyond scheduled time, is provided for this.

A candidate who has not darkened any of the five circles in more than 10% questions shall be disqualified.