

# **STATISTICS FOR ECONOMICS**

## **STD XI**

### **Chapter 1 Introduction**

- Basic concepts of Economics
- Meaning of Statistics
- Functions / Importance of Statistics

### **Chapter 2 Collection Data**

- Introduction
- Sources of Collecting data - Primary and Secondary
- Methods of collecting Primary and Secondary data
- Census Method - Meaning, Advantages and Disadvantages
- Sample Method - Meaning, Types, Advantages and Disadvantages.

### **Chapter 3 Organisation of data**

- Important concepts of classification of data  
  
Raw data, array, frequency, variable, attributes, population,
- Methods of classifying data - Geographical, Chronological, Qualitative.
- Frequency Distribution - Tally bars, Class limit, Class - interval, Mid Value, Exclusive Method, Inclusive Method
- Statistical Series - Individual, Discrete and Continuous. (meaning with examples & exercises)
- Frequency diagrams – Histogram, Polygon and Curve, Ogives

### **Chapter 4 Presentation of Data**

- Tabulation of Data – Textual presentation, Tabular Presentation

- Components / Parts of a table
- Single variate table and Bivariate table (with exercises)

- Statistical Diagrams.

Bar diagrams - Single Bar Diagram, Multiple bar diagram

Component Bar diagram.

Pie Chart

Time series graphs - Single variable, Two-variable

- **Chapter 5 Measures of Central Tendency**

- Meaning and objectives
- Arithmetic Mean or Average - Meaning

Direct Method - computation for all series.

- Median – Meaning and computation for all series.
- Mode – Meaning and computation for all series.
- Partition Values

Quartiles – Meaning and computation for all series

Percentiles - meaning and formula

Deciles - meaning and formula

## **Chapter 6 Measures of Dispersion**

- Meaning, objectives
- Types of measures

Range – meaning and computation of Range and Coefficient of Range

Quartile Deviation, Inter Quartile Range and Coefficient of Quartile Deviation - Meaning and computation for individual

and discrete series

Standard Deviation – Meaning and computation using direct

Method (all series).

## **Chapter 7 Correlation**

- Meaning – Definition, types of Correlation (Positive - Negative, Linear - Non-Linear, Absence of Correlation)
- Techniques of measuring Correlation

Scatter Diagram - Meaning and Computation

Rank Correlation - Meaning and Computation

Karl Pearson's Correlation - Meaning and Computation

## **Chapter 8 Index Number**

- Meaning of Index Number
- Problems in construction of an Index number
- Types of Index Number

Aggregative Method - Simple Aggregate & Average of price relatives

Weighted Aggregative Method - Laspeyre's Method and

Paache's Method

- Important Index Numbers.

Consumer Price Index Number

Wholesale Price Index Number

Industrial Production Index Number

SENSEX

# **INDIAN ECONOMIC DEVELOPMENT**

## **STD XI**

### **Chapter 1. Indian economy on the eve of Independence**

- Introduction
- Agricultural sector
- Industrial sector
- Foreign trade
- Demographic Condition
- Occupational structure
- Infrastructure

### **Chapter 2 Indian Economy (1950-1990)**

- Types of Economic systems
- Goals of five year plans
- Agriculture
- Industry and Trade

### **Chapter 3 Economic Reforms since 1991**

- Emergence of N.E.P.1991
- Liberalisation – Meaning , Reforms in Industrial sector, Financial sector, Taxation, Foreign Exchange, Trade and Investment Policy .
- Privatisation
- Globalisation - Meaning, Outsourcing, W.T.O.
- Assessment or Appraisal of N.E.P. 1991

### **Chapter 4 Poverty**

- Introduction - Definition of Poverty, Poverty line, Categories of poverty
- Types of Poverty – Absolute Poverty and Relative Poverty
- Indicators of poverty / Characteristics of Poor People
- Extent of Poverty in India
- Causes of Poverty (Individual level and Aggregate level)
- Poverty Alleviation Measures – General Measures and Policy measures
- Critical evaluation of Poverty Alleviation Programmes

## **Chapter 5 Human Capital Formation**

- Introduction and meaning of Physical and Human Capital
- Distinction between Physical and Human Capital
- Human Capital Formation – Meaning and Sources of Human Capital

### Formation

- Human Capital & Human Development
- Human capital formation in India
- Education sector in India
- Gender Equity

## **Chapter 6 Rural Development**

- Meaning of Rural Development
- Rural Credit
- Agricultural Market System
- Diversification into Productive Activities
- Sustainable Development & Organic Farming

## **Chapter 7 Employment**

- Introduction
- Workers and Employment
- Participation of people in Employment
- Distribution of Employment in different sectors
- Self-employed and hired workers
- Informalisation of Indian Workforce - Organised and Unorganised

### workers (Distinction)

- Types of Unemployment – Seasonal, Frictional, Technological,  
Educated, Structural and Disguised.

- Causes of Unemployment
- Measures to Reduce Unemployment
- Government and Employment Generation

## **Chapter 8 Infrastructure**

- Meaning of Infrastructure
- Importance of Infrastructure

- State of infrastructure in India
- Energy
- Health

## **Chapter 9 Environment & Sustainable development**

- Environment definition
- Functions of the Environment
- Global Warming, Ozone layer depletion
- Terms carrying cap, absorptive cap, opportunity cost
- State of India's Environment
- Sustainable development – meaning
- Strategies for Sustainable Development

## **Chapter 10 Goan Economy**

- Goan Economy on the eve of Liberation
- Development of the Goan economy since Liberation - Agriculture, Animal Husbandry, Fishing, Mining, Tourism, Information technology policy,
- Industries – Industrial policy of Goa, Small scale Industries, Cottage

Industries, Food Processing, Sick units and Industrial Sickness.

- Infrastructure – Education, Power, Health, Water, Transport, Communication , Banking and Finance.
- Employment – Migrant labour and Problems
- Communities and Goan Economy

### FIRST MID TERM TEST (JULY)

	TOPIC	MARKS (20)
	<b>Indian Economic Development</b> Chapter1. Indian Economy on the eve of Independence.	<b>10</b>
	<b>Statistics</b> Chapter 1. Introduction of statistics. Chapter2. Collection of data.	<b>10</b>

### FIRST TERM EXAMINATION (OCTOBER)

	TOPIC	MARKS (80)
<b>Section A</b>	<b>Indian Economic Development</b> Chapter 2: Indian Economy 1950 - 1991 Chapter 3: Indian Economy 1991 Chapter 4: Poverty Chapter 6: Rural Development	<b>10</b> <b>10</b> <b>10</b> <b>10</b>
<b>Section B</b>	<b>Statistics</b> Chapter 3: Organisation of Data Chapter 4: Presentation of Data Chapter 5. Measures of Central Tendency	<b>10</b> <b>15</b> <b>15</b>



## SECOND TERM EXAMINATION (MARCH)

	TOPIC	MARKS (80)
<b>Section A</b>	<b>Indian Economic Development</b> <b>Core Content:</b> Chapter 4: Poverty Chapter 5: Human Capital Formation Chapter 7: Employment Chapter 8: Infrastructure Chapter 9: Environment and Sustainable Development Chapter 10: Goan Economy	 <b>8</b>  <b>10</b> <b>10</b>  <b>12</b>
<b>Section B</b>	<b>Statistics</b> <b>Core Content:</b> Chapter 5. Measures of Central Tendency Chapter 6: Measures of Dispersion Chapter 7: Correlation Chapter 8: Index Number	 <b>8</b> <b>10</b> <b>10</b> <b>12</b>

### 1. WEIGHTAGE TO LEARNING OBJECTIVES

SERIAL NO.	LEARNING OBJECTIVE	WEIGHTGE (%)
1.	KNOWLEDGE	25
2.	UNDERSTANDING	50
3.	APPLICATION	25
	<b>TOTAL</b>	<b>100</b>

**2. WEIGHTAGE TO TYPE OF QUESTIONS ( 1<sup>ST</sup> MID TERM)**

<b>Serial No.</b>	<b>TYPE OF QUESTION</b>	<b>NUMBER OF QUESTIONS</b>	<b>MARKS</b>	<b>WEIGHTAGE (%)</b>	<b>TIME ALLOTTED (Minutes)</b>
1.	OBJECTIVE TYPE	2	2	10	4
2.	SHORT ANSWER TYPE 1	2	4	20	8
3.	SHORT ANSWER TYPE 2	3	9	45	30
4.	LONG ANSWER	1	5	25	18
	<b>TOTAL</b>	<b>8</b>	<b>20</b>	<b>100</b>	<b>60</b>

**3. WEIGHTAGE TO TYPE OF QUESTIONS ( 1<sup>ST</sup> TERMINAL AND FINAL EXAM)**

<b>Serial No.</b>	<b>TYPE OF QUESTION</b>	<b>NUMBER OF QUESTIONS</b>	<b>MARKS</b>	<b>WEIGHTAGE (%)</b>	<b>TIME ALLOTTED (Minutes)</b>
1.	OBJECTIVE TYPE	10	10	12.5	10
2.	SHORT ANSWER TYPE 1	8	16	20	32
3.	SHORT ANSWER	8	24	30	48

	TYPE 2				
4.	LONG ANSWER	6	30	37.5	60
	<b>TOTAL</b>	<b>32</b>	<b>80</b>	<b>100</b>	<b>150</b>

#### 4. WEIGHTAGE TO LEVEL OF DIFFICULTY

Serial No.	LEVEL OF DIFFICULTY	WEIGHTAGE (%)
1.	EASY	25
2.	AVERAGE	60
3.	DIFFICULT	15
	<b>TOTAL</b>	<b>100</b>

### ECONOMICS

**Time Duration: 1 hour Marks: 20**

**General Instructions:**

- i. All questions are compulsory
- ii. Marks for each questions are indicated against each to the right
- iii. Question Nos. 1 – 2 are Objective type questions carrying 1 mark each.
- iv. Question Nos. 3 – 4 are Short-answer type questions carrying 2 marks each.

Answers to them should normally not exceed 40 words each.

- v. Question Nos. 5 – 7 are also Short-answer type questions carrying 3 marks each.

Answers to them should normally not exceed 60 words each.

- vi. Question No. 8 is a Long-answer type question carrying 5 marks.

Answer to it should normally not exceed 100 words each.

- vii. Answers should be brief and to the point and the above word limits should be adhered to as far as possible
- viii. Internal choice to be exercised in Question No 8.

1. Objective Type Question 1
2. Objective Type Question 1
  
3. Short –Answer Type Question 2
4. Short –Answer Type Question 2
  
5. Short –Answer Type Question 3
6. Short –Answer Type Question 3
7. Short –Answer Type Question 3
  
8. Long – Answer Type Question 5

## **ECONOMICS**

**Time Duration: 2 ½ hours Marks: 80**

### **General Instructions:**

- i. All questions in both sections are compulsory
- ii. Marks for each questions are indicated against each to the right
- iii. Question Nos. 1 – 5 and 17 – 21 are Objective type questions carrying 1 mark each.
- iv. Question Nos. 6 – 9 and 22 – 25 are Short-answer type questions carrying 2 marks each.

Answers to them should normally not exceed 40 words each.

- v. Question Nos. 10 – 13 and 26 – 29 are also Short-answer type questions carrying 3 marks
- vi. Question Nos. 14 – 16 and 30 –32 are Long-answer type questions carrying 5 marks each.

Answers to them should normally not exceed 100 words each.

- vii. Answers should be brief and to the point and the above word limits should be adhered to as far as possible
- viii. Internal choice to be exercised in Questions 13, 16, 29 and 32.
- ix. Use of Non Scientific calculators may be allowed.
- x. All diagrams should be drawn in Black lead pencil only

## **SECTION – A**

### **(Indian Economy)**

1. Objective Type Question 1
2. Objective Type Question 1
3. Objective Type Question 1
4. Objective Type Question 1
5. Objective Type Question 1
  
6. Short –Answer Type Question 2
7. Short –Answer Type Question 2
8. Short –Answer Type Question 2
9. Short –Answer Type Question 2
  
10. Short –Answer Type Question 3
11. Short –Answer Type Question 3
12. Short –Answer Type Question 3
13. Short –Answer Type Question 3
  
14. Long – Answer type Question 5
15. Long – Answer type Question 5
16. Long – Answer type Question 5

## **SECTION - B**

### **( statistics )**

17. Objective Type Question 1
18. Objective Type Question 1
19. Objective Type Question 1
20. Objective Type Question 1
21. Objective Type Question 1

22. Short –Answer Type Question 2
23. Short –Answer Type Question 2
24. Short –Answer Type Question 2
25. Short –Answer Type Question 2

26. Short –Answer Type Question 3
27. Short –Answer Type Question 3
28. Short –Answer Type Question 3
29. Short –Answer Type Question 3

30. Long – Answer type Question 5
31. Long – Answer type Question 5
32. Long – Answer type Question 5