Chapter- 4: PRESENTATION OF DATA

STATISTICS FOR ECONOMICS

Important terms and concepts:

- 1) Tabulation Orderly arrangement of data in rows and columns.
- 2) Objectives of Tabulation:
 - a] Helps in understanding and interpreting the data easily.
 - b] It helps in comparing data.
 - c] It saves space and time.
 - d] Tabulated data can be easily presented in the form of diagrams and graphs.
- 3) Main parts of a table.

Title of the table – It is a brief explanation of contents of the

- al table.
 - Table number It is given to be used for
- b] reference.
 - Captions A word or phrase which explains the content of a column of a
- c] table.
- d] Stubs Stubs explain contents of row of a table.

 Body of the table: Most important part of table as it contains
- el data.
- f] Head note: Head note is inserted to convey complete information of title.
 - g] Source note refers to the source from which information has been taken.

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h] Foot note: It is used for pointing exceptions to the data.

FORMAT OF TABLE

Table Number:
Title:
[Head note]

	Caption				
	Sub-	head			
Stub					Total [Rows]
	C <u>olumn</u>	Column	Column	Column	
	Head	Head	Head	Head	
Stub		↑			
Stub	_				

entries	BODY		
Total [columns]			

Source Note:

Foot Note:

Types of Table:

- 1. Simple Table data are presented according to one characteristic only.
- 2. Double Table data are presented about two interrelated characteristics of a particular variable.
- 3. Three way table This table gives information regarding three interrelated characteristics of a particular variable.
- 4. Manifold table This table explains more than three characteristics of the data

Diagrammatic Presentation of Data

Utility or uses of diagrammatic presentation:

- Makes complex data simple.
- 2. Diagrams are attractive.
- 3. Diagrams save time when compared to other methods.
- 4. Diagrams create a lasting impression on the minds of observers.

Limitations of diagrammatic presentation:

- 1. They do not provide detailed information. To Tomorrow
- 2. Diagrams can be easily misinterpreted.
- 3. Diagrams can take much time and labour.
- 4. Exact measurement is not possible in diagrams.

Kinds of diagrams:

- I. Line diagrams Lines are drawn vertically to show large number of items.
- II. Bar diagram
- 1. Simple Bar diagrams These diagrams represent only one particular type of data.
- 2. Multiple Bar diagrams These diagrams represent more than one type of data at a time.
- 3. Subdivided Bar diagram or Component Bar diagram These diagrams present total values and parts in a set of a data.

III. Pie diagrams – Circle may be divided into various sectors representing various components.

GRAPHIC PRESENTATION OF DATA

<u>Advantages of Graphic Presentation:</u>

- 1. Graphs represent complex data in a simple form.
- 2. Values of median, mode can be found through graphs.
- 3. Graphs create long lasting effect on people's mind.

<u>Disadvantages of graphic Presentation:</u>

- 1. Graphs do not show precise values.
- 2. Only experts can interpret graphs.
- 3. Graphs may suggest wrong conclusions.

Rules of Constructing graph:

- 1. The heading of the graph should be simple, clear and self-explanatory.
- 2. Graphs should always be drawn with reference to some scale.
- 3. False baselines should be drawn if the difference between zero and the smallest value is high.
- 4. Index should be made if different lines are drawn as in time series graphs.

Types of Graphs:

- 1. Line frequency graphs Such graphs are used to represent discrete series.
- 2. Histogram A two dimensional diagram whose length shows frequency and the breadth shows size of class interval.

<u>Frequency Polygon:</u> A histogram becomes frequency polygon when a line is drawn joining midpoints of tops of all rectangles in a histogram.

<u>Frequency Curve:</u> Smooth curve joining the points corresponding to the frequency and provides frequency curve of the data.

Ogive: A curve obtained by plotting frequency data on the graph paper.