Pinky Rani Assistant Professor (Guest Faculty) Department of Economics Maharaja College Veer Kunwar Singh University, Ara Class: B.A. Economics (Part-3) Paper: 07

Topic- Correlation (Introduction)

Correlation refers to the relationship of Variables. Some relationship is tound in cestain type of Variables, for example, there exists a relation between Price and demand, Production and employment, wages and Price index, e.t.c.

According to W. I. King "Correlation means that between two series or groups of class there exists some Caysation Connections."

In statistical analysis, the concept and technique of Correlation is of great importance. The fundamentals of this concept were first, Propounded by the French astronomers, Bravais, Propounded by the french astronomers, Bravais, but correlation technique as such was first investigated graphically by six Francis Gallor investigated graphically by means of assessing correlation by means of coefficient of correlation.

· Utility - Correlation has immense utility in various fields of knowledge. Some of the important areas where correlation has been used successfully are-

1. In the field of genetics - Chalton and Peasson dereloped a method of assessing correlation which was used in studying many Boblems of Giology and genetics.

2. In the field of management - Basically, manage -ment is all about making decision. Correlation technique Bresent a strong tool into the hands of the manager which reduces the range of uncertenisty associated with decision-making

3. In the field of economics — Correlation is very Useful in Understanding economic behaviour. It helps in locating those variables on which other variables alepend. In this way various economic events can be analysed. Moreover, it also he in identifying the stabilishing factors for a disturbed economic situation.

4. Other field of Social Sciences — Correlation)

helps in defermining the interrelationships
between different variables and in this way is
between different promoting research and
is very helpful in promoting research and
opening new frontiers of knowledge.

## Degree of Correlation.

Degree of correlation & exist between +1 to -1.

Value of Gorelation Gefficient	Degree of Greeking
+1	Perfect tre correlation
- <u>L</u>	Perfect - Ve Gorelation
Value between 1 and 0.75	High ologisee of Cosoe Lection
Value between 0.75 and 0.5	Moderate degree of correlation
Value, between 0.5 and 0	low degree of correlation
0 (3000)	Absence of Correlation