

# Paper –304 Statistical Inference – I

## 1. Main Objective :

- To acquaint the students with various statistical technique used in psychology

## 2. The Scheme of question paper:

1. The paper will consist four units:
2. Each Unit Should be given equal weight age in examination
3. Student can use logbook, calculator and Half formula at the time of examination
4. The student will have to submit journal before the start of the university examination of MA semester IV to the control of examination Hem.N.G.Uni. Patan
5. Total Marks are: 100. : Distribution of Marks :
  - A. 60: External Examination
  - B. 10: Journal
  - C. 30: Internal evaluation(Duration of examination: 3 hours)

## Unit – 1 Statistical inference and Regression and prediction

What is statistical inference?

The students aim his study of statistics

Why student needs statistics?

Why statistics are important in research?

Computer's application

Regression and prediction

## Unit – 2 Special correlation methods:

Biserial 'r'

Point Biserial 'r'

Tetrachoric correction

Phi-coefficient

Contingency coefficient

## Unit – 3 Partial and multiple correlation

## Unit – 4 Analysis of variance

Factorial experiments : Two Factors

Factorial experiments : Three Factors

Higher dimensional Designs (only introduction)

### Books

1. Broota, K.D. (1989) Experimental Design in Behavioural Research Bombay Wiley eastern, Ltd.
2. Guilford, J.P.(1954) Fundamental statistics in psychology and education New York, Mc Graw Hill Book Company.
3. Peatman : S.Non-parametric statistics for the Behaviour Science Edition, New York McGraw Hill Book Co.