

**H.P.BOARD OF DEPARTMENTAL EXAMINATION
DEPARTMENTAL EXAMINATION OF OTHER GAZETTED OFFICERS/
OFFICIALS OF HIMACHAL PRADESH SESSION NOVEMBER, 2009**

PAPER-3 (ECONOMICS AND STATICS)

Time Allowed: 3 Hours.

Maximum Marks: 100

Note:- Attempt any five questions. All questions carry equal marks.

- Q.No.1 a) Define the terms Primary and Secondary methods of data collection and in what Special circumstances are two methods suitable?
b) Design a questionnaire to ascertain the view of the people concerning the measures to be undertaken for improving the Environment in the city?

- Q.No.II a) The various methods of sampling are called "Sampling designs" which can be Grouped under two heads. What are those? Describe them with limitation?
b) What, in your opinion, are the tests of a good diagram?

- Q.No.III a) Define the various M's of Central tendency. What purpose do their Measurements serve and which M do you prefer more than the other? Give Examples?

- Q.No.IV The number of employees, wage per employee and the variance of the Wages Per employee for two departments are given below:-

	Deptt.A	Deptt.B
Number of employees	50	100
Average wage/ employee/ month (Rs.)	120	85
Variance of the wages/ employee/ month Rs.)	9	16

- (i) In which department is there greater variation in the distribution of Wages per employee?
(ii) Suppose in department B, the wages of an employee were wrongly noted as 120 instead of Rs. 100. what would be the correct variance for department B?

- Q.No.V a) Define index number and show the importance and the uses of general index numbers?
b) What problems are involved in the construction of an index numbers of Prices?

- Q.No.VI a) In Himachal Pradesh the ratio of males to females is 1000: 968. if this Tendency is to continue, what is the chance that a newly born baby is female?
b) the odds in favour of 'A' Winning a game of cricket against 'B' are 5.2. If three games are to be played, what are the odds in favour of 'A' winning at least one game?

Q.No.VII What are the roles of the Central Statistical Organisation and National Sample Survey Organisation as an apex institution in the collection and Dissemination of statistics?

Q.No.VIII Write short notes o any four:-

- (i) Appromixation
- (ii) Positive & Negative correlation
- (iii) Line of best fit
- (iv) Periodicity
- (v) Gross State Domestic
