H.P.BOARD OF DEPARTMENTAL EXAMINATION
DEPARTMENTAL EXAMINATION OF OTHER GAZETTED OFFICERS/
OFFICIALS OF HIMACHAL PRADESH SESSION APRIL, 2010

PAPER-3   (ECONOMICS AND STATISTICS)

Time Allowed:3 Hours.   **Maximum Marks:100**

Note:- 1. Attempt any five questions. All questions carry equal marks.

Q.No.1   Describe the Statistical System in India? What is the role of the Central Statistical
            Organization and National Sample Survey Organisation?

Q.No.II. a) What are the various methods of presenting statistical data and what is the
                Usefulness of diagrams in presenting statistical data
          b) What, in your opinion, are the tests of a good diagram?

Q.No.III   What are the various Census done in the country? List out the objectives of these
            Census? Give your opinion weather these be done in one point of time?

Q.No.IV) a) What do you mean by weights? Why are they assigned? Point out a few cases in
                Which weighted average should be used?
          b) Do you agree with the following, comment:
          (i) Usually the attendance of a Office is 50 persons per day. Therefore the total
              Attendance for 100 working days is 5000.
          (ii) The increase in the price commodity X was 20%. Then the price decreased 25%
              and again increased 15%. So the resultant increase is (i) 15% & (ii) 10%.

Q.No.V a) What is the relationship of Mean, Quartile and Standard Deviation in a
              Symmetrical distribution?
        b) Monthly incomes of the families are given below in rupees:
            2000, 35, 400, 15, 40, 1500, 300, 6, 90, 250,20, 12, 450, 10, 150, 8, 25, 30,1200
            60.
            Calculate the geometric mean and harmonic mean of the above series?

Q.No.VI a) Describe fully what is meant by correlation and distinguish between positive and
              Negative correlation?
          b) A coin is tossed, what is the probability that tail will appear?

Q.No.VII a) Describe the terms Interpolation and Extrapolation?

       b) What are the various methods of estimating seasonal variations in historical series?

Q.No.VIII   Write short notes on any four:-
   (i) Null Hypothesis
   (ii) Gross State Domestic Product
   (iii) Sample and Census Surveys
   (iv) Moving averages.

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