H.P. Board of Departmental Examination

Departmental Examination of Other Gazetted Officers of Himachal Pradesh

NoV. [redacted], 2019

Paper No. 3 Economics and Statistics

Time Allowed: 3 hours | Maximum Marks: 100

Note: *Attempt any five questions. Maximum marks are indicated against each question within parenthesis.* ***No text books or help books are allowed.***

Q.1. Write a short note on evolution of Statistical Systems in India. What suggestions do you make to ensure seamless flow data and other information for use by the academicians, researchers and policy makers? (10 +10)

Q.2. Plan a survey to evaluate MGNREGA in Himachal Pradesh with specific reference to the sampling technique you would follow. (20)

Q.3. Define Mean, Mode and Median and relationship between the three. Calculate Median from the following data:

Income (Rs.)	Frequency	Income (Rs.)	Frequency
Below 50	1	150-170	22
50-70	16	170-190	15
70-90	39	190-210	15
90-110	58	210-230	9
110-130	60	Above 230	10
130-150	46		

(1+1+1+4+13)

Q.4. Critically examine various welfare measures. Comment if any such measure, in your opinion, covers every aspect of development. (10+10)

Q.5. One box contains 4 round and 2 square blocks. Another contains 3 round and 5 square blocks. If one block is drawn from each bag, find the probability that a) both the blocks are round, b) both the blocks are square, and, c) one is round and one is square. (7+7+6)

Q.6. Write Short Notes on:

i) Ginni Coefficient; ii) Crude Death Rate; iii) NSSO; iv) CSO

(5+5+5+5)

Q.7. The following data gives the number of cycles judged of machine operators and their performance ratings as given by the number of good parts turned out per 100 pieces per cycle:

Operators	1	2	3	4	5	6	7	8
No. of Cycles	16	12	18	4	3	10	5	12
Performance Ratings	87	88	89	68	78	80	75	83

Calculate the regression line of performance ratings on cycles. (20)

Q.8. Differentiate between Consumer Price Index and Wholesale Price Index. Elaborate Splicing and deflating of Index numbers with one example each.

(5+15)