



UNIVERSITY OF THE PUNJAB

B.S. 4 Years Program : First Semester – Fall 2021

Paper: Elementary Statistics-I

Course Code: STAT-101-A

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 Roll No.

 Time: 3 Hrs. Marks: 60

Q.1. Give short answers of the following: (6x5=30)

- i) Differentiate between PARAMETER and STATISTIC.**
- ii) Explain: FREQUENCY DISTRIBUTION, CUMULATIVE FREQUENCY DISTRIBUTION**
- iii) Enlist the properties of an ideal average.**
- iv) Write down properties of STANDARD DEVIATION.**
- v) Explain: ORDINAL and INTERVAL scales of measurement.**
- vi) What is consumer price index number also list the methods of its computation.**

Solve the following questions. (3x10=30)

Q.2.

a) The following data give the annual earnings (rounded to thousands of dollars) of 35 households

30 05 29 07 20 31 28 10 13 24 25 07 22
 15 15 22 78 79 99 30 80 80 75 63 24 35
 25 90 35 33 70 63 35 17

Prepare a frequency grouped frequency distribution clearly mentioning the steps of construction.

Q.3. Given below is the distribution of weekly income (to the nearest rupee) of 100 households in a locality A.

Income	30 — 39	40 — 49	50 — 59	60 — 69	70 — 79	80 — 89	90 — 99
F	13	15	17	28	12	10	5

Calculate: a) Arithmetic Mean b) Coefficient of Variation

Q.4.

Compute (a) Laspeyres price index number (b) Paasche's price index number of 1976 with 1961 as base form the following data.

Commodity	Quantity(units)		Value(Rs.)	
	1961	1976	1961	1976
A	100	150	600	1200
B	80	100	400	700
C	60	72	180	432
D	30	33	450	363