



UNIVERSITY OF THE PUNJAB

Fifth Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Statistics in Social Sciences
Course Code: GS-305 Part-I (Compulsory)

MAX. TIME: 15 Min.

MAX. MARKS: 10

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Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1(a) Fill in the blanks.

(4x1=4)

- i) Mean, Median and Mode are called measure of _____
- ii) The visual display of statistical data is called _____
- iii) Sampling is a process of selecting a sample from whole _____
- iv) A chi-square distribution contains only one _____

Q.1(b) Mark True and False against each statement.

(6x1=6)

- i) Regression is the form of correlation _____
- ii) In random sampling all individuals have not an equal chance of being selecting _____
- iii) A statistic is a single value that describe a population _____
- iv) The Mann-Whitney U test is a non-parametric test _____
- v) Skewness shows the peakedness and flatness in a normal distribution _____
- vi) Pearson correlation coefficient can only take on values from -1 to +1 _____



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Fifth Semester – 2019

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PAPER: Statistics in Social Sciences

Course Code: GS-305 Part – II

MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Write short answers of the following questions.

(10 x 2 = 20)

i). Differentiate between the term sampling and Probability.	ii) Write the steps that you would take to construct a frequency distribution?
iii) What is statistical inference?	iv) Explain testing of hypotheses.
v) Differentiate between sampling distribution and normal distribution.	vi) Differentiate between simple events and combined events.
vii) Explain role of probability in inferential statistics.	viii) Differentiate between null and alternative hypothesis
ix) Differentiate between simple and multiple regressions.	x) Write about the purpose of z-score in a distribution.

Section-III (30)

Q.3. Give a brief account on parametric and non-parametric test used in research? $6 \times 1 = 6$

Q.4. Change the following statement into suitable form of hypotheses (i.e. null hypotheses, alternative hypotheses, directional and non-directional hypotheses) $2+2+2+2=8$

“Is age at marriage associated with divorce?”

Q.5. Differentiate between one sample t-test and two sample t-test also explain confidence interval for means. $4+4+2=8$

Q.6. In which situations a researcher may want to use i) Chi-square test ii) Mann-Whitney U test in a research study? $4+4=8$