

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Department of Sociology, Social Work & Population Studies)

Course: Social Statistics (4689)

Level: M.Sc

Semester: Autumn, 2013

Dear Students,

1. The course comprises two assignments carrying 100 marks each.
2. Please write the assignments in your own words and do not copy from the books.
3. Typed assignments will not be accepted/ evaluated.
4. Try to give examples from your own social settings.
5. Discuss the complex issues of the course with your tutor in the tutorial meetings.

List of contents

This course comprises the following materials:

1. Study guide/s (One)
2. Text books/reader (One)
3. Assignments (Two)
4. Assignment forms (Two)
5. Time table for assignments and tutorials

(Syed Imran Haider)
Course Coordinator

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Department of Sociology, Social Work & Population Studies)

WARNING

1. **PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM AWARD OF DEGREE/CERTIFICATE, IF FOUND AT ANY STAGE.**
2. **SUBMITTING ASSIGNMENTS BORROWED OR STOLEN FROM OTHER(S) AS ONE'S OWN WILL BE PENALIZED AS DEFINED IN "AIOU PLAGIARISM POLICY".**

Course: Social Statistics (4689)

Level: M.Sc Sociology
Total Marks: 100

Semester: Autumn, 2013
Pass Marks: 40

ASSIGNMENT No. 1
(Units 1–4)

Q.1 Define research process and give its different steps. Elaborate each step with the help of examples. (25)

Q.2 Differentiate between the following:- (25)

- i. Parameter and statistics
- ii. Quantitative and categorical variable
- iii. Descriptive and Inferential statistics
- iv. Experiment and sample survey
- v. Ratio and proportion

Q.3 The following data gives the record of an insurance company investment over the years. Draw a bar diagram and a histogram to represent it. (25)

Year:	1950	1951	1952	1953	1954	1955	1956	1957
Rs (million)	1010	2050	3458	1980	2300	1295	1520	1070

Q.4 The following data give the life time in minutes, recorded to the nearest tenth of a minute, of fifty sprayed insects. (25)

1.2	2.2	0.7	3.9	1.7	1.9	1.4	1.8	2.0	4.3
2.5	0.9	3.4	2.8	2.7	3.5	0.4	2.8	1.1	0.2
3.9	6.3	2.5	2.1	1.2	2.1	0.3	0.4	2.4	2.1
3.5	2.9	1.2	5.3	1.7	2.7	1.8	4.8	3.2	1.6
2.6	1.8	2.3	1.3	3.1	1.5	2.6	5.9	2.0	2.3

Using 8 intervals with the lowest starting at 0.1 from a frequency distribution and a cumulative frequency distribution.

ASSIGNMENT No. 2
(Units 5–8)

Total Marks: 100

Pass Marks: 40

Q.1 Calculate the Geometric mean for ungrouped data. Following are the percentage changes in weights of eight boys. (25)
45, 30, 35, 40, 44, 32, 42, 37

Q.2 Data 26 families in a locality are taken and the number of children per family are as follows: (25)

Number of Children:	0	1	2	4	5	6	7
Number of families:	5	6	3	6	3	2	1

Find out the median for this discreet grouped data.

Q.3 What are different measures of variability? Briefly discuss most common measures of variability. (25)

Q.4 Toss a die and observe the number that appears on top. Let A be the event that an even number occurs B be the events that an odd number occurs and C be an event that a prime number occurs. (25)

Find probability:

1. A or B occurs
2. A or C occurs
3. B or C occurs