



PAN AFRICA CHRISTIAN UNIVERSITY
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
END OF SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF ARTS IN COMMUNITY DEVELOPMENT
SEPTEMBER-DECEMBER 2025 TRIMESTER

CAMPUS: ROYSAMBU (ONLINE EXAM)

DEPARTMENT: COMMUNITY DEVELOPMENT

COURSE CODE: CDC 313/COM 301

COURSE TITLE: SOCIAL STATISTICS/ COMMUNICATION STATISTICS

EXAM DATE:

DURATION: 3 HOURS

INSTRUCTIONS

- ❖ **Read the instructions and questions carefully before you write the answers.**
 - ❖ **Question one is compulsory choose any other two questions.**
- ☐ **ALL PAC University's examination rules and regulations apply**

QUESTION ONE: Compulsory (30 Marks)

- a) Explain by use of relevant examples the application of social statistics in the society
(5 Marks)
- b) Discuss the advantages of using primary data over secondary data in social research

(5 Marks)

c) For each of the following variables discuss the appropriate measurement scale

i. Ethnic background (3 Marks)

ii. Student assignment marks (2 Marks)

d) By use of grouped data below

Class	1 - 15	16 - 30	31 - 45	46 -60	61 - 75	76 - 90	91 - 105
Frequency (f)	4	1	7	9	2	5	2

Required

i. Calculate the Mean (5 Marks)

ii. Calculate the Median (5 Marks)

iii. Calculate the Mode (5 Marks)

CHOOSE ANY TWO QUESTIONS:

QUESTION TWO (15 Marks)

a) Using an example in each case, describe THREE qualities of a good questionnaire

(6 Marks)

- b) A study of development of young children records the age in months of which each of 15 children spoke their first word and their adaptive score. The data appear below.

Child	1	2	3	4	5	6	7	8	9	10	11
Age in months (x)	15	26	10	9	15	20	18	11	8	20	7
Adaptive Score (y)	95	71	82	91	102	87	93	100	104	94	113

Required

- a) Determine the Pearson's correlation co-efficient between the age and adaptive score.
(8 Marks)
- b) Explain your answer in (a) above
(1 Mark)

QUESTION THREE

- a) Using relevant examples discuss any five limitations of statistics in the community.
(5 Marks)
- b) A group of 8 students are tested in statistics and law their ranking is as follows:-

Students	A	B	C	D	E	F	G	H
Statistics rank	2	7	6	1	4	3	5	8

Law rank	3	6	4	2	5	1	8	7
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Determine the spearman rank correlation.

(8 Marks)

Comment on the results above

(2 Marks)

$$b = \frac{n \sum xy - (\sum x)(\sum y)}{n(\sum x^2) - (\sum x)^2}$$

$$a = \frac{\sum y - b \sum x}{n}$$

QUESTION FOUR

- a) Outline the three advantages and two disadvantages of mean as measure of data.

(5 Marks)

- b) Below is a grouped frequency distribution table obtained by a social worker on the number of visits for some community work.

Number of visits	Frequency (f)
5 - 9	3
10 – 14	2
15 - 19	4
20 – 24	5
25 - 29	6
30 - 34	8
35 – 39	7

Required

Determine the following showing practical steps to the answers derived.

- i. Mean visits (3 Marks)
- ii. The standard deviation (7 Marks)

QUESTION FIVE

- a) With reasons, identify the most appropriate data collecting tool on each of the following:
 - i. Customer satisfaction in a given hotel (2 Marks)
 - ii. Students' performance in campus (2 Marks)
 - iii. Performance of a community activity (2 Marks)
 - iv. Traffic movement on the road (2 Marks)
 - v. Cultural beliefs of a given tribe (2 Marks)
- b) Differentiate between the following with an example in each case
 - i. Population and sample (2 Marks)
 - ii. Descriptive and Inferential Statistics (3 Marks)