BOWEN UNIVERSITY, IWO
COLLEGE OF MANAGEMENT AND SOCIAL SCIENCES
POLITICAL SCIENCE; INTERNATIONAL RELATIONS;
& POLITICS AND LAW PROGRAMMES
B. SC. (HONS) EXAMINATIONS

COURSE CODE: PDS 102
COURSE TITLE: Statistics for Political Science
COURSE UNIT: 3
INSTRUCTION: Answer Four Questions in All: Two Questions Each from Sections A & B Respectively.

SESSION: 2022/2023
SEMESTER: Second
TIME: 3 Hours

SECTION A *(Answer any Two Questions)*

Question One
Enumerate the uses of Statistics to the social scientists. *(17 ½ Marks)*.

Question Two
What is the difference between qualitative and quantitative data? *(17 ½ Marks)*.

Question Three
Do you agree with the saying that errors are inseparable in the study of statistics? Give reasons for your answer. *(17 ½ Marks)*.

SECTION B *(Answer any Two Questions)*

Question Four
The table Y

Age group	10-19	20-29	30-39	40-49	50-59
No of voters	9	17	25	19	10

Carefully study table Y above and calculate:
(i) The lower and upper class boundaries.
(ii) The class width
(iii) Construct the cumulative frequency table.
(iv) Plot the ogive and frequency polygon. *(17 ½ Marks)*.

Question Five
Find the first, the second, the third and fourth moments of the set of numbers 2, 3, 4, 5, 6. *(17 ½ Marks)*.

Question Six

a) The data in the table below shows the generational diversity of persons living in city A in the year 1995 and 2000 respectively, answer the questions that follow:

Age	Number of persons living in thousand	
	1995	2000
0-16	150	143
17-45	51	107
46-60	29	33
61 above	15	17

(a) What is the percentage increase in the working population?
(b) Calculate the ratio of dependent population to the working population in 1995.
(c) Calculate the ratio of dependent population to working population in 2000.
(d) Has the dependency ratio increase between 1995 and 2000? (17 ½ Marks)

<div align="center">OR</div>

b) The table below shows the population of five communities in Ghana (Figures are hypothetical). Draw (i) a pictogram, (ii) bar chart and (iii) pie chart on the information in the table.

Communities	Population in millions
A	30
B	25
C	15
D	20
E	10

(17 ½ Marks).