BOWEN UNIVERSITY, IWO
(OF THE NIGERIAN BAPTIST CONVENTION)
COLLEGE OF MANAGEMENT AND SOCIAL SCIENCES (COMSS)
SOCIOLOGY PROGRAMME
B.Sc. SOCIOLOGY DEGREE
2022/2023 SECOND SEMESTER EXAMINATION

COURSE CODE: SOC 104
COURSE TITLE: BASIC SOCIAL SATISTICS 1
COURSE UNIT: 3
TIME: 2 HOURS, 30 MINUTES
INSTRUCTIONS: ATTEMPT QUESTION 1 AND ANY OTHER 2 QUESTIONS

1. The data below are the scores of 100 students in GST 103 in the first semester of 2022/2023 session.

15	22	48	88	58	49	69	79	58	27
32	66	46	75	45	37	28	17	18	47
36	77	55	62	38	58	56	58	55	53
42	55	52	74	28	95	64	74	82	37
45	33	58	58	15	26	58	56	54	53
49	44	57	45	16	54	71	45	48	73
52	81	67	36	56	55	73	56	56	68
56	93	46	28	57	42	61	62	55	16
57	92	36	13	73	43	68	36	57	26
58	12	25	14	65	41	53	47	77	35

(a) Compute the Frequency distribution of the students using Classes 11-20, 21-30, etc.

(b) Find the Range, Mean, Median and Mode scores of the students

(c) Draw the Histogram of the distribution   (30 Marks)

2. Compute the Standard deviation and Coefficient of Variation of the data below

Weight	10-19	20-29	30-39	40-49	50-59	60-69
Frequency	5	15	10	12	6	2

(20 Marks)

3. (a) The scores obtained by an undergraduate in Sociology programme at the end of the first semester of 2022/2023 are shown below:

Course	GST 201	GEL 201	CSA 201	SOC 215	SOC 207	SOC 219	SOC 203	IRD 207	PDS 205	BUS 201
Credit	2	1	1	3	2	3	2	3	3	3
Grade	A	B	C	B	C	A	D	E	F	C
Grade point	5	4	3	4	3	5	2	1	0	3

Calculate the grade point average (weighted Arithmetic mean) for the student.

(b) Find the Harmonic and Geometric Mean of the following: 10, 12, 14, 16, 18, 20

(20 Marks)

4. The data below are scores of students in GEL 201 in the first semester of 2022/2023 Session

Groups	11-20	21-30	31-40	41-50	51-60	61-70
Frequency	100	150	200	300	400	50

Find the Following (i) 3rd Decile. (ii) 80th Percentile. (iii) 40th percentile. (iv) Interquartile Range
(20 Marks)

5. Find the first four moments about the mean of the data below

Weight	10-19	20-29	30-39	40-49	50-59	60-69
Frequency	5	15	10	12	6	2

(20 Marks)