

**BOWEN UNIVERSITY, IWO**  
**COLLEGE OF SOCIAL AND MANAGEMENT SCIENCES**  
**ECONOMICS PROGRAMME**  
**B.Sc. DEGREE EXAMINATION, 2021/2022 ACADEMIC SESSION**  
**FIRST SEMESTER EXAMINATION**

**Course Code:** ECN 399

**Course Credits:** 2

**Course Title:** Economics Research Methodology

**Time allowed:** 2 hrs

**Instruction:** Answer question 1 and any other **two** questions

1a. A company employs the following numbers of staff in 3 categories:

Management 20

Technical 40

Administrative 40

How many from each category should be included in a quota sample size:

i. 10 **3 marks**

ii. 20 **3 marks**

iii. 5 **3 marks**

bi. What is a quota sample? **7 marks**

ii. A theatre group has 40 members of whom 15 are boys. A quota size of 8 is to be interviewed. How many girls and how many boys should be included in the sample?  
**10 marks**

2a. What are the types of probability sampling? **10 marks**

b. State the advantages and disadvantages of probability sampling? **12 marks**

3ai. Identify which sampling technique was used in the following study: A journalist asks 15 friends about their opinion on the last World Series baseball game. **10 marks**

ii. What are the limitations of this sampling technique? **6 marks**

b. What is sampling bias? **6 marks**

4a. What are the common techniques in qualitative research method? **10 marks**

bi. Find the range and coefficient of range of the following data: 35, 77, 58, 63, 28, 49, and 54.  
**7 marks**

ii. The range of a set of data is 13.67 and the largest value is 70.08. Find the smallest value.  
**5 marks**

5ai. What do you understand by deviation from mean? **5 marks**

ii. Express deviation from mean mathematically. **5 marks**

b. State and briefly explain the various measures of dispersion. **12 marks**