

MALABAR CHRISTIAN COLLEGE, CALICUT
FIRST SEMESTER INTERNAL EXAMINATION, SEPTEMBER 2026
 MINOR COURSE IN STATISTICS
 DESCRIPTIVE STATISTICS FOR DATA SCIENCE
STA1MN101

Time: 1 Hr

Max Marks: 35

DETAILS	MARKS SCORED	SECTION	MARKS	TOTAL MARKS
NAME:		SECTION A		
CLASS:		SECTION B		
		SECTION C		

SECTION A

(EACH QUESTION CARRIES 3 MARKS, MAX MARKS FOR SECTION – 7)

1. Differentiate between qualitative and quantitative variables with one example each.
2. Define primary data and secondary data. Give one example of each.
3. Define frequency distribution. Mention any two uses of a frequency distribution.

SECTION B

(EACH QUESTION CARRIES 6 MARKS, MAX MARKS FOR SECTION – 18)

4. Explain the different methods of collecting primary data.
5. Construct a frequency distribution for the following data using suitable class intervals: 12, 18, 21, 25, 27, 29, 31, 34, 36, 38, 41, 44, 46, 48, 49, 52, 55, 57, 61, 63.
6. Explain cumulative frequency distribution and describe the construction and uses of less-than and more-than cumulative frequency curves (ogives).
7. Find Arithmetic mean for the following data

Class:	0–10	10–20	20–30	30–40	40–50	50–60
Frequency:	5	8	12	15	7	3

SECTION C

(ANSWER ANY ONE. EACH QUESTION CARRIES 10 MARKS)

8. (a) Explain the merits and limitations of graphical representation of data.
 (b) For the following grouped data, prepare a suitable graphical representation and explain the steps involved:

Class:	0–10	10–20	20–30	30–40	40–50
Frequency:	6	10	15	12	7

9. (a) Explain frequency distribution and cumulative frequency distribution in detail.
 (b) Using the following data, construct both a less-than and a more-than cumulative frequency distribution:

Class:	0–10	10–20	20–30	30–40	40–50	50–60
Frequency:	5	8	12	15	7	3