Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 28-10-2025 **Time:** 11.00am to 12.30pm

School: SOC	**Program:** B.Com. Business Analytics	
Course Code: CBS1017	**Course Name:** Business Statistics	
Semester: I	**Max Marks**:50	**Weightage**:25%

CO - Levels	**CO1**	**CO2**
Marks	**26**	**24**

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2 marks. **5Q x 2M=10M**

1	List out the characteristics of statistical data.	**2 Marks**	**L1**	**CO1**
2	Recall nominal scale and ordinal scale of measurement of statistical data.	**2 Marks**	**L1**	**CO1**
3	Define measures of central tendency	**2 Marks**	**L1**	**CO2**
4	State the formula of geometric mean for grouped frequency distribution**.**	**2 Marks**	**L1**	**CO2**
5	Differentiate qualitative and quantitative statistical data.	**2 Marks**	**L4**	**CO1**

Part B

Answer ALL the Questions. Each question carries 10 marks. **4Q x 10M=40M**

6.	Discuss the scope, importance and limitations of statistics as science.	**10 Marks**	**L2**	**CO1**
	Or			
7.	Present the data given below in percentage bar diagram. **Passengers from various Airports**	**10 Marks**	**L2**	**CO1**

	Airport	**Air India**	**Spice Jet**	**Go Air**	**Indigo**	**Vistara**			
	Mumbai	400	200	800	600	300			
	Madras	300	100	500	200	400			
	Guwahati	100	50	150	50	50			
	Calcutta	150	200	100	100	100			

8.	Calculate arithmetic mean and mode of the distribution given below.							**10 Marks**	**L2**	**CO2**
	Class	**5-15**	**15-25**	**25-35**	**35-45**	**45-55**	**55-652**			
	Frequency	**2**	**8**	**15**	**20**	**15**	**5**			
	Or									
9.	Calculate all the quartiles of the distribution given below.							**10 Marks**	**L2**	**CO2**
	Class	50	250	500	1000	1500	2000			
	Frequency	30	50	80	20	15	40			

10.	Present the data given below in a histogram.						**10 Marks**	**L2**	**CO1**
	20-40	**40-60**	**60-80**	**80-100**	**100-120**	**120-140**			
	15	**30**	**40**	**20**	**10**	**5**			
	Or								
11.	Calculate cumulative frequency distributions and construct ogives for the given data.						**10 Marks**	**L2**	**CO1**
	Class	30-50	50-70	70-90	90-110	110-130			
	Frequency	20	30	40	15	10			

12.	Calculate harmonic mean and median of the distribution given below						**10 Marks**	**L2**	**CO2**
	Class	**10-20**	**20-30**	**30-40**	**40-50**	**50-60**			
	Frequency	**15**	**5**	**20**	**30**	**15**			
	Or								
13.	Compute mean deviation of the data given below.						**10 Marks**	**L2**	**CO2**
	Class	50-100	100-150	150-200	200-250	250-300			
	Frequency	30	20	10	20	12			