Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Make Up Examinations – December 2025

Date: 26 – 12- 2025 **Time:** 1.00pm to 04.00pm

School: SOL	**Program:** BBA LLB	
Course Code: BBL2003	**Course Name:** Business Statistics	
Semester: MK	**Max Marks**: 100	**Weightage**: 50%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
Marks	**46**	**44**	**42**	**24**	**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 2marks. **10Q x 2M=20M**

1.	Outline pooled data and cross-sectional data.	**2 Marks**	**L1**	**CO1**
2.	List out the characteristics of statistical data.	**2 Marks**	**L1**	**CO1**
3.	Recognize content analysis in primary data collection.	**2 Marks**	**L1**	**CO1**
4.	State the formula for geometric mean calculation for a continuous frequency distribution.	**2 Marks**	**L1**	**CO2**
5.	State the steps for computing percentiles for a continuous frequency distribution.	**2 Marks**	**L1**	**CO2**
6.	Summarize about measures of skewness.	**2 Marks**	**L1**	**CO3**
7.	Outline positive correlation and negative correlation between two variables.	**2 Marks**	**L1**	**CO4**
8.	State the formula for computing intercept and slope coefficient of a regression line of Y on X.	**2 Marks**	**L1**	**CO4**
9.	Outline normal distribution.	**2 Marks**	**L1**	**CO5**
10.	Summarize poison distribution.	**2 Marks**	**L1**	**CO5**

Part B

Answer the Questions. **Total Marks 80M**

11.	**a.**	Discuss the scope and limitation of subject statistics.	**10 Marks**	**L2**	**CO1**
		Or			
12.	**a.**	Discuss in details about normal distribution and the properties of the distribution.	**10 Marks**	**L2**	**CO5**

13.	**a.**	Discuss in detail about discrete and continuous probability functions.	**10 Marks**	**L2**	**CO5**
		Or			
14.	**a.**	Discuss in details about various measures of central tendency.	**10 Marks**	**L2**	**CO2**

15.	**a.**	Calculate Karl Pearson co efficient of skewness for the following data. **Income**: 60, 10, 80, 40, 10, 60, 95, 10, 5, 25	**10 Marks**	**L3**	**CO3**
		Or			
16.	**a.**	Discuss about absolute and relative measure of dispersion and calculate range and co efficient of range for the data given below **Expenditure**: 50, 10, 80, 40, 30, 60, 90, 20, 5, 15	**10 Marks**	**L3**	**CO3**

17.	**a.**	Discuss in detail about correlation analysis and different degrees of linear correlation between two variables.	**15 Marks**	**L2**	**CO4**
		Or			
18.	**a.**	Discuss about regression analysis and regression equations of on Y on X and X on Y for a simple linear regression model.	**15 Marks**	**L2**	**CO4**

19.	**a.**	Discuss the steps of constructing histogram and present the data given below in a histogram.	**15 Marks**	**L3**	**CO1**
		Or			
20.	**a.**	Discuss about the steps of constructing a simple bar diagram and present the data given below in simple bar diagram.	**15 Marks**	**L3**	**CO1**

Classes	Frequency
10-20	20
20-50	80
50-60	10
60-80	30
80-90	5
90-100	15

State	Karnataka	Kerala	Goa	Tamil Nadu
SGDP	150	200	50	300

<table>
<tr><td>21.</td><td>a.</td><td>Calculate Mean deviation about A.M and Standard deviation of the data given below.
<table><tr><th>Variable Value</th><th>Frequency</th></tr><tr><td>50-100</td><td>15</td></tr><tr><td>100-150</td><td>20</td></tr><tr><td>150-200</td><td>30</td></tr><tr><td>200-250</td><td>20</td></tr><tr><td>250-300</td><td>10</td></tr><tr><td>300-350</td><td>5</td></tr></table></td><td>20 Marks</td><td>L3</td><td>CO3</td></tr>
<tr><td colspan="6">Or</td></tr>
<tr><td>22.</td><td>a.</td><td>Compute Harmonic mean and Mode for the data given below.
<table><tr><th>Income Classes (000)</th><th>No. of Households</th></tr><tr><td>20-40</td><td>10</td></tr><tr><td>40-60</td><td>30</td></tr><tr><td>60-80</td><td>50</td></tr><tr><td>80-100</td><td>15</td></tr><tr><td>100-120</td><td>5</td></tr><tr><td>120-140</td><td>20</td></tr></table></td><td>20 Marks</td><td>L3</td><td>CO2</td></tr>
</table>