

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE Regular and Supplementary Summer Examination – 2024 Course: B. Tech. Branch : Electronics and Computer Engineering / Electronics and Computer Science Engineering Semester :IV Subject Code & Name: BTECPE405B Data Analysis Max Marks: 60 Date: 24/06/2024 Duration: 3 Hr.			
Instructions to the Students: 1. All the questions are compulsory. 2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question. 3. Use of non-programmable scientific calculators is allowed. 4. Assume suitable data wherever necessary and mention it clearly.			
		(Level/CO)	Marks
Q. 1	Solve Any Two of the following.		12
A)	Discuss the stages for data preparation and data cleaning.		6
B)	Explain Statistical Modeling and Statistical Modeling Techniques		6
C)	Explain the terms Statistical Inference ,Statistical Bias and Cofounding in Statistical		6
Q.2	Solve Any Two of the following.		12
A)	Give short note on 1)Measure of central tendency 2) Measure of spread,		6
B)	Define Hypothesis ,Explain types of Hypothesis testing.		6
C)	Define and explain the role of key function in statistical analysis.		6
Q. 3	Solve Any Two of the following.		12
A)	Define data transformation. Explain Box-Cox Transformation.		6
B)	Explain how Logit transforms is used to transform binary response data?		6
C)	What is the Normal distribution of data ? Explain Normal transform in data transformation.		6
Q.4	Solve Any Two of the following.		12
A)	Describe the steps involved in conducting a Z test for a single mean		6
B)	Explain the Anderson darling goodness of fit test.under what conditions this test preferred over other tests.		6

C)	Write the Difference between ZTest and T Test		6
Q. 5	Solve Any Two of the following.		12
A)	Explain One way ANOVA and Two way ANOVA for data analysis.		6
B)	What is goodness of fit test? Define the chi square goodness of fit test.		6
C)	Describe Mc Nemar's Test with suitable example.		6
	*** End ***		