

Semester: July 2023- December 2023 Maximum Marks: 30 **Examination:** In-Semester Examination Duration: 1 hr. 15 min Class: Semester: Programme code: 54 FY/SY/TY/LY $\frac{1}{1} \frac{1}{1} \frac{1}$ Programme: Honours in Data Science & Analytics /MTECH (SVU 2020) Name of the Constituent College: Name of the department: COMP/EXCP/EXTC/IT/MECH K. J. Somaiya College of Engineering Course Code: 116H54C301 Name of the Course: Data Visualization

Question No.		Max. Marks	СО	BT
Q1	Use the data set shared in folder (Global_YouTube_Statistics.csv)			
3	Data Cleaning:	05	COI	3(AP)
	 Deleting redundant columns Renaming the columns. Dropping duplicates. Cleaning individual columns. Handle the missing values from the dataset 			
	Prepare ANY THREE out of FOUR visualization charts for:	15	CO1 CO2 CO3	
	 Earning Analysis: to visualize the distribution of monthly earnings among the YouTube channels. Channel Growth Over Time: to visualize the growth of subscribers for the channels over time (by year and month). 			2(UN) 6(CR)
	 Category Popularity: to show the distribution of YouTube channels across different categories. Country Analysis: visualization to display the number of YouTube channels in each country 			
Q2	Write short on any TWO a) Justify the need of data visualization b) Data Visualization Life cycle c) Gestalt Principles used for design	10	CO1 CO2 CO3	2 (UN) 1(RE)