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G.R. No.	
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**DECEMBER 2021 - ENDSEM EXAM**  
**FINAL. YEAR B. TECH. (CIVIL) (SEMESTER - I)** CIVIL/MECH  
**COURSE NAME: BUSINESS ANALYTICS**  
**COURSE CODE: IOEUA40184F**  
**(PATTERN 2018)**

Time: [1 Hour]

[Max. Marks: 30]

**(\*) Instructions to candidates:**

- 1) Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6.**
- 2) Figures to the right indicate full marks.**
- 3) Use of scientific calculator is allowed**
- 4) Use suitable data where ever required**

- Q.1 a Justify the importance of below terms in regard to Power BI 4 Marks
- a. Dataset
  - b. Report
  - c. Dashboard
  - d. Subscription
- Q.1 b With suitable example, distinguish the ways to perform calculations in Power BI. 6 Marks

**OR**

- Q2 a Justify the importance of Profit ratio with example and detailed procedure. 4 Marks
- Q2 b Distinguish the types of connections and schedule refresh in detail with example and Identify which type of connection schedule refresh is not required? 6 Marks
- Q.3 a Identify the significance of measure of dispersion with examples 4 Marks
- Q.3 b On July 8th, 2019, the U.S. Census Bureau reported on their "population clock" that the population of the United States was 293,683,456 people. The National Endowment of the Arts conducted a survey — titled "Reading at Risk" — on the reading habits of approximately 17,000 adults. Of those surveyed, only 57% read a book in 2002. (Assume population proportion is 63%) 6 Marks
- a. Determine the population under investigation?
  - b. Identify the sample?
  - c. Identify the parameter of interest?
  - d. Determine the statistic?
  - e. Determine true value?
  - f. Determine the sampling error?

**OR**

- Q.4 a Justify thumb rule of standard deviation and procedure to detect outliers. 4 Marks
- Q.4 b A study was conducted to relate weight gain in chickens (Y) to the amount of the amino acid lysine ingested by the chicken (X). A simple linear regression is fit to the data. 6 Marks

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>P-value</i>
Regression	1	27.07	27.07	23.79	0.0012
Residual	8	9.10	1.14		
Total	9	36.18			
	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	
Intercept	12.4802	1.2637	9.8762	0.0000	
lysine(X)	36.8929	7.5640	4.8774	0.0012	

- Develop the regression equation for predicting weight gain in chickens as function of lysine intake.
- Determine predicted value for  $X=0.20$
- Identify predictor and target variable

- Q.5 a Compare Tableau server and Tableau online. 4 Marks
- Q.5 b Justify the Business analytics role in detail played in retail or marketing industry. 6 Marks

**OR**

- Q.6 a Distinguish features of tableau and their advantages. 4 Marks
- Q.6 b Justify Business analytics role in detail played in healthcare industry 6 Marks