G.R. No.	

PAPER CODE

V481-224 FŒSE)

[Max. Marks: 30]

6 Marks

MAY 2022 - ENDSEM EXAM FINAL. YEAR B. TECH. (CIVIL & MECHANICAL) (SEMESTER - II) COURSE NAME: BUSINESS ANALYTICS COURSE CODE: IOEUA40184F (PATTERN 2018)

Time: [1 Hour]

(*) 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 Simplify the use of Power BI Gateway in detail and also 4 Marks importance of Power BI Mobile.

 Q.1 b Justify the necessity of data transformation and also 6 Marks distinguish some advance data transformations in Power BI

distinguish some advance data transformations in Power BI

OR

Q2 a Identify the importance of Power BI Service 4 Marks

- Q2 b Simplify YTD QTD and MTD with suitable examples and develop DAX to calculate it
 Q.3 a Identify the importance of rower Bi Service 4 Marks 6 Marks 4 Marks 4 Marks 6 Marks 6 Marks 6 Marks 6 Marks 6 Marks 7 Marks 1 Marks
- Q.3 a Identify the significance of regression analysis with examples Q.3 b A study is conducted to determine whether students' first year GPA (Y) can be predicted by their ACT score (X). A random sample of n=120 freshmen from a small college were selected. The following EXCEL output gives the results of a simple linear regression on the data.
 - a. Develop the regression equation for predicting GPA as function of ACT score
 - b. Determine the predicted GPA for student scoring 20 on the ACT?
 - c. Relationship whether positive or negative between GPA and ACT exists?

d. Identify predictor and target variable?

Regression	1 Statistics					
Multiple R	0.2695					
R Square	0.0726					
Adjusted R						
Square	0.0648					
Standard Error	0.6231					
Observations	120					
ANOVA						
			***************************************	***************************************	Significance	
*******************************	df	SS	MS	F	F	
Regression	1	3.5878	3.5878	9.2402	0.0029	
Residual	118	45.8176	0.3883			
Total	119	49.4055				
		Standard		P.		Upper
		Error	t Stat	value	Lower 95%	95%
***************************************	Coefficients	EHOI	Loint			
Intercept ACT(X)	Coefficients 2.11	0.3209	6.5880	0.0000	1.4786	2.7495

OR

Q.4 a Simply the significance of the term central tendency with 4 Marks examples

Q.4 b A commercial real estate company is interested in the 6 Marks relationship between properties' rental prices (Y), and the following predictors: building age, expenses/taxes, vacancy rates, and square footage. The results for a regression are given

Regression	on Statistics					
Multiple R	0.7647	~				
R Square	0.5847					
Standard Error	1.1369					
Observations	81					
ANOVA						
***************************************	df	SS	MS	F	P-value	
Regression	4	138.3269	34.5817	26.7555	0.0000	
Residual	76	98.2306	1.2925			
Total	80	236.5575	***************************************			
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
ntercept	12.2006	0.5780	21,1099	0.0000	11.0495	13.3517
age	-0.1420	0.0213	-6.6549	0.0000	-0.1845	-0.0995
exp/tax	0.2820	0.0632	4.4642	0.0000	0.1562	0.4078
/acancy	0.6193	1.0868	0.5699	0.5704	-1.5452	2.7839
sqfoot	0.0000	0.0000	5.7224	0.0000	0.0000	0.0000

- a. Relationship between rental rate and any of these predictors? Interpret the strength of the relationship?
- b. Conclude the regression equation.
- c. Determine properties rental prize for 10years old building with 0 tax, 2 vacancy and 500Sq.ft area.
- d. Identify predictor and target variable.
- Distinguish the importance of Tableau architecture with neat Q.5 a 4 Marks diagram?
- Justify the Business analytics role in detail played in HR Q.5 b 6 Marks management.
- Simplify the significance of all tableau products. Q.6 a 4 Marks Justify Business analytics role in detail played in educational Q.6 b 6 Marks industry.