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G H Raisoni College of Engineering and Management, Pune.  
(An Autonomous Institution affiliated to Savitribai Phule, Pune University)

FY B.TECH (TERM/SEM I)  
ESE WINTER 2025 (2023 Pattern)  
Foundation of Data Analytics (23UESL1206)

[Time: 02:30Hours]

[Max. Marks-60]

*Instructions to the candidates:*

- 1) All questions compulsory.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.
- 5) Use of Non-programmable calculators is allowed.

Q. No.	Sub Question	Marks	CO	BL
1	a) Explain how the four types of Data Analytics are dependent on each other.	6	CO1	L2
	b) Describe Life Cycle of a Data Analytics project with neat diagram and illustrate the significance of Discovery stage.	6	CO1	L2
2.	a) Elaborate the significance of Validation step in Data preparation for reliability of analysis.	4	CO2	L2
	b) Illustrate with suitable example the HTML tag used for merging the cells in a table.	4	CO2	L2
	c) Describe any four text functions in Excel	4	CO2	L2
3.	a) Compare and contrast between z-table and t-table.	4	CO2	L2
	b) A regression analysis predicted following output values for a set of inputs with mean of 81 :- 71.69, 76.77, 76.77, 81.85, 86.92, 92.00; If R-squared value for this regression is 0.1163, calculate the SSE.	8	CO3	L3
	<b>OR</b>			
	c) Describe following parameters of Linear regression giving their significance in Interpretation of dependency - i)SSR ii) Adjusted R-square iii) t-statistic iv) p-value	8	CO3	L2
4.	a) Explain various custom calculations available in Pivot table's <i>Value Field Setting</i> option	6	CO3	L2
	b) Illustrate filtering in pivot tables using <i>Top 10 filter</i> with suitable example of data.	6	CO4	L2
5	a) Explain any three Highlight Cell Rules with suitable examples.	6	CO4	L2
	b) Describe the steps to create a Dashboard in Excel.	6	CO4	L2
	<b>OR</b>			
	c) Explain Top-Bottom Rules of Background conditional formatting in Excel.	6	CO4	L2

- BL – Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 – Applying, 4 – Analyzing, 5 –Evaluating, 6 - Creating).

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