

Semester: June 24– Nov 24		
Maximum Marks: 50 Examination: ESE Examination Date: 12-11-24 Duration: 02 hrs		
Programme code:01 Programme: MBA	Class: FY	Semester/Trimester: I
College: K J Somaiya Institute of Management	Name of the department/Section/Center: DST	
Course Code: 317P01C110—	Name of the Course: Spreadsheet Modelling	
Instructions:		
<ol style="list-style-type: none"> 1. Attempt any five. 2. Data for all questions are in folder. Complete the work in the same file and rename the file with your Roll Number and name , rollno_name. (solution file) 3. Write assumptions wherever necessary. 4. Upload one student one excel file- rollno_name. (solution file) 		

Question No.		Max Marks
1	<p>Use Employee Dataset. This dataset typically contains various details about employees, including their names, salaries, departments, and job titles. Solve the foll questions using conditional formatting</p> <ol style="list-style-type: none"> 1. highlight the rows Which employees earn above \$90,000? 2. Highlight rows how many employees have a performance rating below 4.0? 3. Which department has the highest average salary? 4. Highlight rows - How many employees joined after January 1, 2019? 5. Which employees have a performance rating of 5.0? highlight 6. How many employees work in the IT department? highlight 7. Which job titles have salaries above \$100,000? highlight 8. Are there any employees with missing values in the Salary or Job Title columns? 	10
2	Using the lookups.xlsx find the following information by applying lookup functions	10

	<p>1: What is the salary of Alice Smith?</p> <p>2: What job title has an average salary of 80000?</p> <p>3: How much does the IT department typically pay for a manager?</p> <p>4: How many years of experience are required for the Coordinator position?</p> <p>5: What is the department of David Brown?</p> <p>6: Which job title has the highest average salary?</p> <p>7: What is the job title of the employee with ID 3?</p> <p>8: How much does the HR department pay its employees on average?</p> <p>9: What is the required experience for an Executive position?</p> <p>10: Which employee has the highest salary?</p>	
3	<p>Use diabetes-vid.xlsx file and find the following using pivot table</p> <ol style="list-style-type: none"> 1. What is the average glucose level of patients categorized by age group? 2. What is the distribution of diabetes cases by gender? 3. What is the average BMI of patients with diabetes vs. non-diabetes? 4. How many diabetes cases are reported for each age group? 5. What is the average insulin level for patients with different glucose levels? 6. What is the correlation between BMI and Age for diabetes patients? 7. What is the percentage of patients with diabetes who have a family history of diabetes? 8. How does the number of pregnancies relate to diabetes occurrence and the outcome 9. What is the average blood pressure for diabetic vs. non-diabetic patients? 10. What is the distribution of diabetes cases across different age groups and BMI ranges? 	10
4	<p>explore using the "Electronic Sales Sep 2023-Sep 2024" dataset and find the answers</p> <ol style="list-style-type: none"> 1. How many electronic items were sold in September 2023? 	10

	<ol style="list-style-type: none"> 2. How many units of a specific product "Smartphone" were sold? 3. How many transactions had a sale value greater than \$500? 4. What is the total revenue from sales of laptops? 5. What is the total revenue generated in October 2023? 6. What is the total revenue for sales where the quantity sold is more than 5 units? 7. How many sales of headphones were made in November 2023? 8. How many transactions involved both Smartphones and sales amounts above \$1000? 9. How many electronic items were sold in December 2023 in the "Online" sales channel? 10. What is the total revenue generated from "Laptop" sales in "physical stores"? 																													
5	<p>Use given below sales forecasting dataset that you can use for the Scenario Manager questions based on sales growth rates. This dataset includes monthly sales data for two products over three months:</p> <p>Scenario Details</p> <ul style="list-style-type: none"> • Base Case Scenario: Current growth rate of 5%. • Optimistic Scenario: Increase the growth rate to 10%. • Pessimistic Scenario: Decrease the growth rate to -2%. • <p>Calculation of Projected Sales</p> <p>To calculate the projected sales for each product for the next three months based on different scenarios, use the following formula: Projected Sales=Current Sales×(1+Projected Growth Rate)</p> <p>Sales Forecasting Dataset</p> <table border="1" data-bbox="357 1406 1034 1912"> <thead> <tr> <th>Month</th> <th>Product</th> <th>Current Sales</th> <th>Projected Growth Rate (%)</th> </tr> </thead> <tbody> <tr> <td>January</td> <td>Widget A</td> <td>30,000</td> <td>5</td> </tr> <tr> <td>January</td> <td>Widget B</td> <td>20,000</td> <td>5</td> </tr> <tr> <td>February</td> <td>Widget A</td> <td>32,000</td> <td>5</td> </tr> <tr> <td>February</td> <td>Widget B</td> <td>21,500</td> <td>5</td> </tr> <tr> <td>March</td> <td>Widget A</td> <td>31,500</td> <td>5</td> </tr> <tr> <td>March</td> <td>Widget B</td> <td>22,000</td> <td>5</td> </tr> </tbody> </table>	Month	Product	Current Sales	Projected Growth Rate (%)	January	Widget A	30,000	5	January	Widget B	20,000	5	February	Widget A	32,000	5	February	Widget B	21,500	5	March	Widget A	31,500	5	March	Widget B	22,000	5	10
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6	Using edate.xlsx file and perform the following questions.[use date	10																												

functions]

Questions

- 1: How many years has Ganesh been employed?
- 2: What is the total number of months Aliya Bhatt has been employed until her end date?
- 3: What is the next end-of-month date for Bhavesh's contract?
- 4: How many days remain until karan's contract ends?
- 5: How many complete years and remaining months has jyoti been employed as of today?