

Semester: June 23 – Sept 23				
Maximum Marks: 50 Examination: ESE Examination Date: 12/11/2024 D	ouration: 2 Hrs			
Programme code: 01 Programme: MBA	Class: FY	Semester/ Trimester : I		
College: K J Somaiya Institute of Management	Name of the department/Sec	Name of the department/Section/Center: DST		
Course Code: 317P01C110	Name of the Course: Spread	Isheet Modelling		
Instructions: 1. Answer Any five of the following				

Ques		Max.
tion		Mark
No.		S
Q. 1 A	Laxmi Engineering is manufactures auto components for 3 Car companies. The Director wants to understand the sales, revenue, Profit before tax and profits after tax for his company for the next 5 years. He estimates a Year1 sales as 12000 units, Year1SPrice as Rs.7.50 and Year1cost price as Rs.6. The yearly sales growth is assumed to be 15%, and he estimates yearly Selling Price growth as 8% and due to inflation yearly Cost increment at 5%. If the present tax rate is 20% and he pays annual bank interest as 8% on working capital, design a Spreadsheet model for 5 years to show the input parameters and business output variables. The bar chart shows the variation in Profit After tax and revenue growth for these 5 years.	5 Mark s
Q. 1 B	You see an ad for a used car that you would like to buy. The ad says that the dealer will give you a Rs.100000 trade in on your old vehicle. The asking price for the car (before trade-in) is Rs. 500,000. They will offer you a 4% interest rate for a 3-year loan. What is the amount you need to finance? Determine what your monthly payments will be. Copy the work, and then use the Goal Seek tool to determine what the asking price of the car, before trade-in, would have to be to make a monthly payment of Rs. 5000. Also using data table analyze the monthly payment for various interest rates 4.5%, 5%, 5.5%, and 6% and various number of years 4,5,6.	5 Mark s
Q. 2	 explore using the "Electronic Sales Sep 2023-Sep 2024" dataset and find the answers 1. How many electronic items were sold in September 2023? 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"? 	10 Mark s
Q. 3	[A] You are part of a logistics company responsible for managing shipments and deliveries. Your manager has asked you to calculate the	10 Mark

	number of working days req	uired to complete vario	ous shipments, consid	dering weekends (only S	unday) and holidays. [U	se Q3 A sheet]	S
	 [B] A company wants to qui who have achieved more th quarterly performance reviee Employees with a performar employee is from reaching th need more focus. Use the fo Green if sales Yellow if sales are 	ickly identify employee an their target sales so w, the HR team wants nce rating below 3 are o heir sales target. Emplo llowing rules. [use Q3f are 90% or more of the s are between 70% and e less than 70% of the ta	s who have exceeded that they can be re- to focus on employe considered low perfo yees who are closer 3 sheet] target 90% of the target. arget.	ed their sales targets to warded in an upcoming ees who are struggling ar rmers. The sales team n to their targets are perfo	recognize top performe performance review m nd may need additional eeds a quick visual way prming well, while those	ers. Highlight those eeting. As part of a support or training. to see how far each far from the target	
Q. 4	Eastman Publishing Comp The fixed cost of manuscr processing cost for an initi selling single user access t Consider the following sce scenarios.	pany is considering puipt preparation, textbo ial estimated demand to the book at \$46. enarios and using scen Scenario1 \$6 \$46 2,500 highest profit?	blishing an electro ook design, and we quantity of 3500 is nario manager gene Scenario2 \$8 \$50 1,000	nic textbook titled "Sp b site construction is en \$6 per book. The East trate a summary report Scenario3 \$12 \$40 6,000	readsheet applications stimated to be \$160,00 man Publishing Comp that gives the profit for Scenario4 \$10 \$50 5,000	for Business". 20. Variable bany intends or each of these Scenario5 \$11 \$60 2,000	10 Mark s
	Which scenario yields the lowest profit?						
Q. 5	Use file sales.xlsx file and	lanswer					10 Mark
	1) Using pivot table find out yearly and within yearly quarterly revenue					S	
	2) use conditional formatting to highlight the quarter with the highest revenue						
	3) find out yearwise and region wise revenue						
	4) create the pivot chart for revenue salesperson wise						
	5) find out the sales person who gave us highest revenue						
	6) find out which product is getting sold highest						
	7) find out the product wise revenue and which product gave highest revenue						

Q. 6	Using edate.xlsx file and perform the following questions.[use date functions]	10 Mark
	Questions	S
	1: How many years has Ganesh been employed? 2: What is the total number of months Aliva 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?	