

Trim: June – Sep 24						
Maximum	n Marks: 50 Examination: ETE Exam Date: 13/11/2024 Durat	ion: 2 Hours				
Programm Programm	ne Code: 06 ne: MBA-HCM	Class: FY	Semester/ Trimester : I			
College: 1	K. J. Somaiya Institute of Management	Name of the Department/Section/Center: DST				
Course Code: 317P06C109		Name of the Course: Spreadsheet for Data Analytics				
Instructions:						
1.	Section A is Compulsory & carries 20 Marks.					
2.	Attempt Any Three Questions from Section B					
3.	Each Question in Section B carries 10 Marks.					
4.	Answer in Ascending Order only.					

Question								Max.
No.								Marks
Q1A	You are provided with the following data of patient satisfaction scores (out of 100) for five departments of a hospital							10
	over the last six months:							
	Department	Apr	May	Jun	Jul	Aug	Sep	
	Cardiology	82	75	88	90	85	92	
	Neurology	79	81	84	86	89	87	
	Paramedical	70	68	75	72	76	73	
	Oncology	85	88	91	89	92	95	
	Outpatient	78	80	82	84	83	86	
	 a) In a new column next to each department, calculate the minimum, maximum and average patient satisfaction scores for each department over the six months. b) Apply conditional formatting to the entire table so that: Values above 90 are highlighted in green. Values between 85 and 90 are highlighted in yellow. Values between 80 and 85 are highlighted in blue. Values between 75 and 80 are highlighted in orange. Values below 75 are highlighted in red C) Which department has the highest and the lowest overall patient satisfaction scores for the six months? 							
Q1B	Use the sheet mentioned in Q1A to create a pivot table and pivot chart.				10			

SECTION A

SECTION B

Question

Nos.			Marks			
Q2	Use data from Q1A for the following:					
	a) Sort the scores for April in descending order.					
	b) Create an additional column that groups each department as					
	"Consistent" or "Inconsistent" based on the average.					
	• If the average is less than 85, label the department as					
	"Inconsistent". • If the average is 85 or more label it as "Consistent"					
	• If the average is 65 of inforce, label it as Consistent .					
	The highest average score should have a rank of 1. Place the rank in					
	a new column.					
	d) Calculate how many times each department scored above 85 (a)					
	Add this count as a new column peyt to the rank					
	e) Create a bar chart to visualise the monthly scores for each					
	department, showing trends over time.					
Q3	Oxygen storage data in the cylinder is provided below:		10			
_	Total Capacity (Liters) in Oxygen Cylinder	300				
	Current Volume Capacity (Liters) in Oxygen Cylinder	100				
	Percentage (%) of the Total Capacity					
	a) Calculate the current percentage (%) of the total capac	ity.				
	b) Calculate the volume capacity for 70%, 75%, 80%	, 85% and				
	90% of the total capacity using goal seek. Show all	the results				
	separately.					
04	$\Omega(4)$ a) The hospital currently operates with the following financial d					
	• Revenue per patient: ₹8,000					
	• Number of patients per month: 1,200					
	b) The formula to calculate the Total Revenue:					
	Total Revenue = Revenue per patient × Number of patient	nts				
	c) The table should examine the following ranges:					
	Revenue per patient: ₹6,000, ₹7,000, ₹8,000, ₹9,000 and ₹10,000					
	Number of patients: 800, 1,000, 1,200, 1,400 and 1,600					
	d) Create a two-variable data table that shows the	impact of				
	different combinations of the Revenue per patient and	Number of				
05	a) Create five scenarios based on Total Revenue by ch	onging the	10			
	Revenue per patient and Number of patients for all five s	cenarios	10			
	b) The formula to calculate the Total Revenue:	centerios.				
	Total Revenue = Revenue per patient × Number of patient	its				
	c) Revenue per patient should be more than ₹10,000	for all five				
	scenarios.					
	d) The number of patients should be more than 2,000	for all five				
	scenarios.					
	e) Create a Scenario Summary.					
	1) Mention the best scenario from the five scenarios.					
	g) mention the worst scenario from the five scenarios.					
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