Printed	d Page	age:- 04 Subject Code:- ACSBS0704					
		Roll. No:					
N	IOID <i>i</i>	DA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NO	)IDA				
(An Autonomous Institute Affiliated to AKTU, Lucknow) B.Tech							
		SEM: VII - THEORY EXAMINATION (2024 - 2025)					
		Subject: Services Science & Service Operational Management					
			Marks: 100				
		nstructions:	,				
		ify that you have received the question paper with the correct course, code, browsition paper comprises of three Sections, A. P. & C. It consists of Multiple Cl					
		uestion paper comprises of three Sections -A, B, & C. It consists of Multiple Cl (MCQ's) & Subjective type questions.	юсе				
		um marks for each question are indicated on right -hand side of each question					
		te your answers with neat sketches wherever necessary.					
		e suitable data if necessary.					
		ably, write the answers in sequential order.					
		et should be left blank. Any written material after a blank sheet will not be /checked.					
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SECT	ION-	N_A	20				
			20				
<ol> <li>Attempt all parts:-</li> <li>Market segmentation is useful for (CO1, K1)</li> </ol>			1				
1-a.			1				
	(a)						
	(b)						
	(c)						
1 1	(d)		1				
1-b.	_	describe the employees skill in serving the client. (CO1, K2)	1				
	(a)						
	(b)						
	(c)						
	(d)						
1-c.	Se	Service design elements consists of (CO2, K1)	1				
	(a)	) Facility design					
	(b)	) Facility location					
	(c)	Capacity planning					
	(d)	All of the above					
1-d.	Fo	For a New Service Development we need to be concerned about (CO2, I	K4) 1				
	(a)	) Location					
	(b)	) Facilities Layout					
	(c)	) Effective Customer inflow and Work flow					

	(d)	All of the above			
1-e.	Managing the peak demand becomes difficult due to nature. (CO3, K3)				
	(a)	Intangibility			
	(b)	Perishability			
	(c)	Inseparable			
	(d)	Heterogenous			
1-f.	w	pricing strategies encourage the customer to expand his/her dealings ith the service provider. (CO3, K5)	1		
	(a)	Relationship pricing			
	(b)	Price bundling.			
	(c)	Benefit-driven pricing.			
	(d)	Efficiency pricing.			
1-g.		is NOT a factor influencing the delivery gap. (CO4, K2)	1		
	(a)	willingness to perform			
	(b)	overpromising			
	(c)	role ambiguity			
	(d)	inadequate support			
1-h.	The firms overemphasis on cost reduction and short-term profits will increase the size of the: (CO4, K4)				
	(a)	Knowledge gap			
	(b)	Communication Gap			
	(c)	Standard Gap			
	(d)	Delivery Gap			
1-i.	Type of optimization problem is VRP. (CO5, K3)				
	(a)	Linear Programming			
	(b)	Integer Programming			
	(c)	Nonlinear Programming			
	(d)	Dynamic Programming			
1-j.		Variant of VRP involves delivering goods to a set of customers while minimizing the total distance traveled. (CO5, K3)			
	(a)	Capacitated VRP			
	(b)	Periodic VRP			
	(c)	Open VRP			
	(d)	Distance-constrained VRP			
2. Att	empt a	all parts:-			
2.a.	D	siscuss the term People Processing. (CO1, K1)	2		
2.b.	N	Iention four responsiveness crucial in service quality. (CO2, K2)	2		
2.c.		escribe physical evidence. (CO3, K2)	2		

2.a.	Describe implicit service guarantee. (CO4, K2)	4
2.e.	Enumerate the type of e-services. (CO5, K1)	2
<b>SECTIO</b>	<u>)N-B</u>	30
3. Answe	er any <u>five</u> of the following:-	
3-a.	Describe the principles of service operations. (CO1, K1)	6
3-b.	Discuss the challenges that arise in cross-cultural service encounters. (CO1, K5)	$\epsilon$
3-c.	Write down the importance of new service development. (CO2, K3)	$\epsilon$
3-d.	Describe the role of intermediaries in new service development process. (CO2, K4)	6
3.e.	Describe the dimensions of servicescape. (CO3, K2)	6
3.f.	"Customer retention is beneficial for organization", comment. (CO4, K5)	6
3.g.	Explain Dynamic Vehicle Routing. (CO5, K3)	6
<b>SECTIO</b>	<u>DN-C</u>	50
4. Answe	er any one of the following:-	
4-a.	Examine the role of the service industry in shaping the GDP of India and its impact on economic growth. (CO1, K6)	10
4-b.	According to you, which one is more important either product marketing or service operations? Justify your answer. (CO1, K5)	10
5. Answe	er any <u>one</u> of the following:-	
5-a.	List any example of company providing service differentiation. (CO2, K1)	10
5-b.	List down five examples of high and low contact of services. (CO2, K1)	10
6. Answe	er any one of the following:-	
6-a.	Describe reasons of switching service providers, Suggest measures a marketer can undertake to prevent the customers from switching. (CO3, K4)	10
6-b.	Explain the term word of mouth communication and discuss its significance for a health service provider. (CO3, K2)	10
7. Answ	er any <u>one</u> of the following:-	
7-a.	Describe a real-world scenario where a company successfully used quantitative forecasting methods such as moving averages or exponential smoothing to improve their demand forecasting accuracy. (CO4, K3)	10
7-b.	In the context of demand forecasting, discuss the advantages and disadvantages of using historical data versus market research data. Provide examples to support your arguments. (CO4, K4)	10
8. Answe	er any one of the following:-	
8-a.	Discuss real-world applications benefit from VRP solutions. (CO5, K5)	10
8-b.	In a city with multiple medical facilities, you are responsible for optimizing the routes of ambulances to respond to emergency medical calls. The goal is to minimize response time while considering the capacity of each ambulance and the urgency of each call. Create a model to solve this problem as a VRP, taking into	10

account real-time dynamics and the critical nature of emergency response. (CO5, K6)

REG. JULY DEC. 202A