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Enrolment No:



UPES

End Semester Examination, Dec 2024

Course: Service Operations
Program: MBA-CORE-III-B5
Course Code: LSCM8032_3
Semester: III
Time: 03 hrs.
Max. Marks: 100

Instructions:

SECTION A 10Qx2M=20Marks

S. No.		Marks	CO
Q 1	Statement of question		
1.1	The most interactive element in the service blueprint of a fitness facility is the		
	a. choice of music played.b. amount and type of exercise equipment.c. attention given to prospective members on their initial visit.d. cleanliness of the locker rooms.	2	CO1
1.2	Which of the following is not a service design element? a. Capacity planning b. Managing capacity and demand c. Market research d. Information	2	CO1
1.3	Which of the following features does not illustrate a contribution that the customer can make in the delivery of services? a. Substitution of customer labor for provider labor b. Smoothing service demand c. Service standardization d. None of the above	2	CO1
1.4	The most common reason for difficulties during the interaction of customers and contact personnel is: a. unreasonable demands. b. a technical breakdown in service delivery. c. incompetent contact personnel. d. a lack of attention to detail by contact personnel.	2	CO1
1.5	is the time it takes to complete a process from time of arrival to time of departure. a. Rush order flow time b. Cycle time c. Throughput time d. Direct labor time	2	CO1

4.4	goods, or information. What challenges are faced in each category when	5	CO2
2.2	quality? Discuss. Recall that service operations can be classified as processing people,	5	CO2
Q 2 2.1	Statement of question How do the five dimensions of service quality differ from those of product	Marks	CO
0.2	4Qx5M= 20 Marks		
	SECTION B		
	e. 32 cases		
	d. 20 cases		
	c. 14 cases		
	b. 11 cases		
	a. 8 cases	4	
	What is the economic order quantity for beer?	2	CO1
	beer.		
	they are placed. Daily holding costs are equal to 5 percent of the cost of the		
	Order costs are \$8.00 per order, and beer costs \$.80 per six-pack (each case of beer contains four six-packs). Orders arrive three days from the time		
1.10	The manager of the Departmental Store sells four cases of beer each day.		
1.10	d. 0.578		
	c. 0.475		
	b. 0.364		
	a. 0.622	2	CO1
	loading dock before the alley is blocked, how often will this problem arise?		
	the alley to the business next door. If there is room for 2 trucks at the		
1.9	The management has received complaints that waiting trucks have blocked		
	d. weaving		
	c. reneging		
	b. balking	2	CO1
	a. jockeying	2	CO1
	when she or he switches to a different line perceive it to be moving faster.		
1.8	After selecting a line in a multiple queue system, a customer is		
	d. using reservations and appointments.		
	c. increasing the customer self-service content of the service.		
	a. using part-time help during peak hours.b. scheduling work-shifts to vary workforce needs according to demand.	2	CO1
	can smooth demand by:		
1.7	Faced with variable demand and a perishable capacity, a service manager		
	d. cost of providing service		
	c. aesthetic factors		
	b. eliminating bottlenecks	2	COI
	a. need to avoid unnecessary travel	2	CO1
	and one of the following:		
1.6	Facility layout is discussed with attention to traffic flow, space planning,		

2.3	What are some drawbacks of increased customer participation in the service process? Discuss with some relevant examples.	5	CO2
2.4	Crazy Joe operates a canoe rental service on the Gualala River. He currently leases 15 canoes from a dealer in a nearby city at a cost of \$10 per day per canoe. On weekends, when the water is high, he picks up the canoes and drives to a launching point on the river, where he rents canoes to white-water enthusiasts for \$30 per day. Lately, canoeists have complained about the unavailability of canoes, so Crazy Joe has recorded the demand for canoes and found the experience below for the past 20 days:		CO2
	Daily Demand 10 11 12 13 14 15 16 17 18 19 20 Frequency 1 1 2 2 2 3 3 2 2 1 1		
	Recommend an appropriate number of canoes to lease.		
	SECTION-C		
Q 3	3Qx10M=30 Marks Statement of question	N/1	CO
3.1	A general-purpose auto-repair garage has one mechanic who specializes	Marks	СО
	in muffler installations. Customers seeking service arrive at an average rate of 2 per hour, with a Poisson distribution. The average time to install a muffler is 20 minutes, with negative exponential distribution. a. On arrival at the garage, how many customers should one expect to find in the system? b. The management is interested in adding another mechanic when the customer's average time in the system exceeds 90 minutes. If business continues to increase, at what arrival rate per hour will an additional mechanic be needed?	10	CO3
3.2	Think about the last time you used a high customer-contact service such as a clinic, a hotel, or a restaurant. Sketch the service process and try to determine which elements were subject to high levels of control. Were there any elements of the service that were not subject to control, but should have been? Why was this so?		СО3
3.3	Compare and contrast the sustainability efforts in service operations and manufacturing.	10	CO3
	SECTION-D		l
Q	2Qx15M= 30 Marks Statement of question	Marks	СО
<i>1</i> 1	With the miss of digital services, traditional services blue mints have evalved	TVIAI KS	
4.1	With the rise of digital services, traditional service blueprints have evolved. Choose a hybrid service (partially digital and partially face-to-face, like telemedicine or online food delivery). Create a service blueprint that includes both physical and digital touchpoints. Discuss the challenges	15	CO4

	involved in managing and integra	ating these touchpoints and how they		
	affect customer experience.			
4.2	Getting a physical examination at a	a physician's office involves a series of		
	steps. The table below lists these a	ctivities and their average times. The		
	activities can occur in any order, b	ut the doctor's consultation must be		
	last. Three nurses are assigned to p	erform activities 1, 2, and 4.		
	Activity	Average Time (Min)		
	Blood pressure, wt., temp.	6		
	Medical History	20		
	Doctor's Checkup	18		
	Lab Work	10	15	CO4
	Doctor's Consultation	12		
	who can be seen per hour? b. Suggest a reallocation of nursing result in increased service capacity	and the maximum number of patients g and/or doctor activities that would, and draw a product flow diagram. bor content, rush order flow time, and roved system?		