B.Tech DEGREE EXAMINATION, NOVEMBER 2023

Seventh Semester

18MBH463J - SERVICES SCIENCE AND SERVICE OPERATIONAL MANAGEMENT

(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

Note:

i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40^{th} minute.

ii. Part - B and Part - C should be answered in answer booklet.

Time	e: 3 Hours		Max. N	Marks:	: 100
	PART - A $(20 \times 1 = 20 \text{ N})$ Answer all Question		Mark	ks BL	СО
1	Services are ideas and concepts and not producnature of service.	ts or things. This concept refers to	_ 1	1	1
		Heterogeneity Simultaneity			
2.	A is a bundle of goods and services with information that is provided n some environment.		1 1	1	1
		Service operations Service strategy			
3.	` '	yer forms the 3) Supporting facility 3) Implicit services		2	1
4.	()	societies. 3) Post-industrial 9) None of these	1	1	1
5.	The service delivery system captured in a visua	he service delivery system captured in a visual diagram is known as service		1	2
		B) Blueprinting D) Process flow			
6.	is the policy requirement by the mar from the queue for service (A) Queue discipline (E)	nagement to select the next customes 3) Queue configuration	r ¹	2	2
	. , .)) Arrival process			
7.		of successive units 3) Capacity utilization 3) Cycle time	:- 1	1	2
8.	'Robust design of products' is the concept advo		1	1	2
		3) Taguchi D) Ishikawa		ž	
9.	When only the service provider has access to to of face to face service	he technology to facilitate the delivery	y 1	2	3
	(A) Technology assisted service (E encounter	Technology facilitated service encounter	,		
	(C) Technology mediated service (I encounter	Technology generated service encounter			

10.	The quality element of service that represents t employees is (A) Reliability (B) Employee (C) Assurance (D) Tang	athy	1	1	3
11.	Which of the following is a managerial service design (A) Delivery system (B) Local	element?	1	2	3
12.		cal customer venience customer	1	1	3
13.		mand? noting off-peak demand eduling work shifts	1	1	4
14.		rates many of the strategies to uction management	1	2	4
15.	When customers are expected to perform a role in a commitment results in a form of variability called (A) Effort (B) Requ (C) Capability (D) Arriv	nest	1	2	4
16.		e ice capacity e of these	1	1	4
17.	In method the nodes represent project activativity sequence (A) Activity on arrow (B) Gant (C) Activity on Node (D) None		1 =	1	5
18.	Which of the following is not a characteristics of proj (A) Purpose (B) Life (C) conflict (D) routi	cycle	1	1	5
19.	The technical and administrative experience explain project manager (A) Credibility (B) Sens (C) Leadership (D) Valid	itivity	1 =	2	5
20.	When successful projects become institutionalized a then this method of project termination is known as — (A) Integration (B) Addition (C) starvation (D) Extinguished (D)	tion	1	1	5
	PART - B (5 × 4 = 20 Marks) Answer any 5 Questions	*	Marks	BL	CO
21.	What do you mean a service package? Briefly explain	its features	4	2	1
22.	Elucidate the four strategic service vision elements		4	2	2
23.	Enumerate on the generic competitive strategies by Po	orter	4	1	1
24.	Explain in detail the structural and managerial service	design elements	4	1	2
25	What are the elements of a Service Encounter Triad?	Unstrate with a neat skatch	4	3	3

26.	Analyze the five different sources of customer induced variability in service operations.	4	4	4
27.	Expound the steps involved in the project management process	4	1	5
PART - C (5 × 12 = 60 Marks) Answer all Questions			ks BL	CO
28.	(a) Explain in detail the four quadrants of the service process matrix (OR)	12	1	1
	(b) What are the five competitive forces propounded by Porter? Elucidate them			
29.	(a) Illustrate the concept of House of Quality and its role in Quality Function Deployment.	12	2	2
	(OR)			
	(b) Give a detailed view of the taxonomy for service process design.			
30.	(a) Enumerate with an example the different types of role played by technology in service encounter	12	3	3
	(OR)			
	(b) List the quality tools for analysis and problem solving. Explain any four of them.			
31.	 (a) Explain the following demand managing strategies: (i) Offering price incentives (ii) Promoting off-peak demand (iii) Reservation systems and over-booking (OR)	12	4	4
	(b) What are the strategies used for managing capacity? Illustrate any two strategies in detail.	*:	~	
32.	(a) List and explain the project monitoring techniques (OR)	12	3	5
	(b) Explain in detail the steps involved in estimating the activity duration and completion time distribution of a project.			
