Name: Enrolment No:



UNIVERSITY WITH A PURPOSE

# UNIVERSITY OF PETROLEUM & ENERGY STUDIES Online End Semester Examination – June, 2021

## Program: MBA (O&PM) Subject/Course: Total Quality Management Course Code: LSCM 8017P

Semester: II Max. Marks: 100 Duration: 03 Hours

#### SECTION A

- 1. Each Question will carry 5 Marks
- 2. Instruction: Complete the statement / Select the correct answer(s)

Q.No		COs
1	Mention five process mapping tools,,,, and	CO 1
2	<ul> <li>From the following options select the new planning tools;</li> <li>a. Affinity diagram</li> <li>b. Pareto chart</li> <li>c. Matrix diagram</li> <li>d. Control charts</li> <li>e. Process decision program chart (PDPC).</li> </ul>	CO 1
3	Suppose you want to open a business account in the bank you already have a saving account. Mention any five dimensions on which you will judge the service quality for that bank?	CO 2
4	<ul> <li>Select the benchmarking type(s) that is/are not correctly matched;</li> <li>a. Internal - departments within the business</li> <li>b. Competitor - within the same industry sector</li> <li>c. Functional - same function across all industry fields</li> <li>d. Generic - with industry having same operational strategies</li> </ul>	CO 3
5	Mention any five tools for six sigma and quality improvement,,	CO 4
6	Identify the type of cost of quality for the following examples; a. Data collection and analysis b. Quality improvement program c. Cost on returned goods d. Material and product losses e. Inspection cost	CO 3
	SECTION B Each Question will carry 10 Marks Instruction: Write short / brief notes	

7	Discuss in detail abou	t SERQUAL mod	lel and mention al	the gaps involved.	CO 4		
8	Being a team leader for the order picking process in ABC company, you have realized that there exist some tasks (activities) which are not adding any significant value. What steps will you follow to improve the process.						
9	Reed Engineering Ltd is a valve manufacturing company that was established two decades ago. The valves are high-end products. The company used to manufacture a variety of valves to cater to the needs of different customers. Over the years, several competitors entered the field and Reed started facing tough competition in the marketplace. The situation forced Reed to look at reducing operating costs. With the help of the employees, the management identified three models of valves, which were felt to have the greatest opportunity for savings. You have been invited as a consultant to look at the following cost data, analyze and prepare a report for the management.						
	Quality Cost	Product A	Product B	Product C			
	Prevention	5,698	1,569	1,908			
	Appraisal	37,676	10,384	9,206			
	Internal Failure	1,19,107	60,876	63,523			
	External Failure	1,33,168	12,625	15,755			
	Total Sales	81,65,000	17,50,000	90,392			
	Total labour cost	5,800	5,650	4,585			
10	Discuss each phase of DMAIC methodology of Six Sigma.						
11	Explain the origins of	ISO 9000 and TC	M. How are they	different?	CO 1		
2.	Each Question will carr Instruction: Write long Attempt any one questi	ry 20 Marks answer. on.	SECTION C				
	business, Airtel, is a Bharti considers inform Gangotra, vice-preside system as well as a key The company has a we	leading mobile mation technolog ent of Information y business driver. ide area network ompany extends	telephony brand. y as a key busine on Technology at (WAN) in place w	tor telecom operators. Its cellula Like any telecom organization ss enabler. According to Amrita Bharti, IT works as a suppor with a mix of leased lines and E tons to its dealers and partners age of high-end servers from Sur	, i t		

#### with innovative products and services.

### **Oracle CRM Platform**

Bharti wanted to fulfill its vision of providing the same quality of services anywhere and at any time. The company was particular that its customers should get the same quality of service no matter which of its call centres he or she contacts. It evaluated many options before choosing its centralized CRM tool. The factors considered were proper workflow automation, facilitation of knowledge sharing and integration with the billing system. After a thorough evaluation exercise, it decided to go ahead with the Oracle CRM platform.

### **Rolling Out**

After the company started its operations in Delhi, it acquired many circles and sought new licenses in other circles. The CRM tool was implemented immediately whenever it obtained a new license. However, the company had to put in place a phased migration strategy in the acquired circles, which had an existing subscriber base. The migration had to be done in such a manner that the existing customer base did not suffer. The migration was completed in a phased manner by the first quarter of 2004. The biggest challenge for Bharti was to have a unified process in place. They also faced the challenge of imparting training. The company was successfully able to overcome the technical difficulties that it faced during implementation.

The CRM strategy at Bharti revolves around two aspects—operational CRM and analytical CRM. Operational CRM revolves around improving the workflow of call centres and helping them in their day-to-day activities. Analytical CRM provides staff with the required information on customers and is used for business development. The company has successfully used its CRM solution to provide products tailor-made to the needs of its customers. Thus, customers receive more value for money. Customers now have access to different schemes and services depending on airtime usage. Bharti has also managed to segregate its workflow with the help of the CRM tool.

### Questions;

- a) What were the challenges faced by Bharti in its CRM implementation process?
- b) Explain the various benefit received by Bharti after implementing CRM.

### OR

In a manufacturing industry the plate thickness is one of the important CTQ factor. In Analyze phase the quality control team collected 10 sets of plate with a subgroup size of 4. The data of thickness samples is recorded as follows.

Samplas		Subg	roups	
Samples	1	2	3	4
1	44	26	24	34
2	50	48	51	43
3	32	28	26	22
4	52	55	56	44
5	16	16	21	26

	36	36	35	31	
7	21	22	18	21	
8	29	21	23	22	
9	26	46	44	14	
10	24	22	22	44	

# ANSWERS