



	WINTER-2023		
	Exam Seat No.:		
	Academic Year:2023-2024	Semester:III	
	Name of Programme:MBA	Pattern:2022	
	Name of Course:Six Sigma	Course Code:MBA22 3 4 06	
	Max. Marks:60	Duration:2 hours 30 minutes	

	<p>Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.</p> <ol style="list-style-type: none">1. This question paper contains <u>2</u> page(s).2. Answer to each new question is to be started on a new page.3. Assume suitable data wherever required, but justify it.4. Draw the neat labelled diagrams, wherever necessary.5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.6. Question 1 and 2 are compulsory.Solve a or b and c or d from question number 3, 4 and 5	
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Question No. 1 Attempt following Question

- 1a) Explain in detail the concept of CTQ 's in Six Sigma quoting a suitable example. (6) CO1

If you have total of 500 delivery orders out of which 41 were delivered late and 17 were incorrect orders.

Calculate the 1)DPU 2)DPO 3)DPMO 4)YIELD.

Question No. 2 Attempt following Question

- 2a) a)Following data is given for two variables (6) CO2

x: 42 44 58 55 89 98 66

y: 50 49 53 58 64 76 58

Find the: Regression Coefficient of x on y

Question No. 3 Attempt following Question

- 3a) a)Explain in detail the given below QC tools with suitable diagrams. (8) CO3

1)Fishbone diagram 2)Histogram 3)Pareto chart 4)Control chart

OR

- 3b) Write a note on Control Charts and Explain any 3 types of Control Charts with suitable diagrams. (8) CO3

- 3c) What is a Statistical Process Control(SPC)?List down the steps on how to perform SPC? (8) CO3

OR

- 3d) Explain with suitable diagrams 1)c Control chart 2)u Control Chart 3)p Control Chart (8) CO3
4)np Control Chart

Question No. 4 Attempt following Question

- 4a) Define a Project Charter.Draft a Project Charter for the project given below: (8) CO4
“Inventory Levels are too high and must be reduced”.

OR

- 4b) Define a Business case.Give a Business Case Proposal for the project given below: (8) CO4
Project to install a Cisco Telepresence equipment to allow the senior management of a company to call their secondary headquarter after a Merger and Acquisition.

- 4c) Define Six Sigma.Elaborate in detail the 7 Elements of Waste with examples. (8) CO4

OR

- 4d) Write a short note on (8) CO4
1)Scope Creep. 2)Strategy Deployment Matrix.

Question No. 5 Attempt following Question

- 5a) Draw a diagram and explain DFSS Process Flow. (8) CO5

OR

- 5b) Discuss Critical Success Factors in Implementation of Six Sigma. (8) CO5

- 5c) What is DFX in SixSigma.Explain what is DFM, DFA, DFR, DFSC, DFT, DTC ,DFS. (8) CO5

OR

- 5d) Discuss any Six Sigma Case Study of your choice explaining the need for Six Sigma and implementation challenges. (8) CO5