	SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR	2
	ROLL No: Total number of pages:[1]  Total number of questions:06	
	MCA 5 <sup>th</sup> Sem	
	Object Oriented Analysis and Design using UML	
	Subject Code: MCA-504	
	Paper ID:	
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	Time allowed: 3 Hrs Max Marks: 100	
	Important Instructions:	
	All questions are compulsory  PART A (2×10)	
Q.1	PART A (2×10) Short-Answer Questions: All COs	
Q.1	(a) Define class and object in case of UML. (b) What is multiplicity and its types?	
	(c) Explain Object Diagrams in UML?	
	(d) What do you mean by events and states?	
	(e) What is iterative SDLC?	
	<ul><li>(f) What is ArgoUML?</li><li>(g) Differentiate between black box and white box?</li></ul>	
	(h) State the purpose of modeling in sequence diagram.	
	(i) Compare static and dynamic model.	
	(j) What is singleton design pattern.	
	PART B (16×5)	
Q. 2	. What do you mean by Object Orientation? Explain Object Oriented Modeling in detail. OR	coi
	What is OWIE and its need. Traine daste durining orders of the party and the	COI
	architecture of UML.	
Q. 3.	How a system is broken in saces, steme among me e, each as a graph	CO2
	oriented modeling?	
	OR .	
	types of Events?	CO2
Q. 4.	Explain class design. What are the steps of class design? Explain with an example ATM using UML.	CO <sub>3</sub>
	OR	
Q. 5.	Explain the phases of software development Life Cycle with their functionalities. Explain structured analysis and structured design approach in detail. Give its comparison with OMT.	CO <sub>3</sub>
	OR	
	What is the purpose of Use Case Diagram? How to draw use case diagram? Explain with	CO4
Q. 6.	example. What is Activity Diagram? How it is different from Interaction diagram? Discuss in	CO5
	detail.	
	OR	
	What do you mean by functional model of a system? Explain in detail.	CO5

Q. 5.

Q. 6.