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		CAT – 1 – MODEL QP				
Progra		B.Tech				
	Title	NoSQL Databases	Code		3009	
Time		01:30 Hours	Max. Marks	: 50		
		Part A- Answer all the Questions (5 x 10)= 50 marks)			
1.	To implement an intranet web search engine by storing a web pages into the local database, identify and explain a simple database that presented with a simple string returns an arbitrary large BLOB of data. Ensure the database should have no query language to add and remove data into/from a database. Ans: Key-value store Pg. 63 – 72 in book "Making Sense of NoSQL"				10	
	Modu	e-2 – Topic-1 in PPTs				
2.	 when database implementation is costly when the application data is too large when the application needs data analytics what is the type of database would you prefer? Explain your answer how the suggested database improves the application development productivity and implements the distributed systems and cloud computing. Ans: NoSQL Databases Pg. 13 – 17 in book "Next_Generation_Databases_NoSQL_NewSQL" 				10	
3.		e-1 – Topic-1 in PPTs	atabase at the ba	ckond	10	
3.	Assur the cl cluste	consider an application which uses a NoSQL do not the required data is available at the cluster A ent machine B and the data have to crossovers. How do NoSQL systems use different types in performance?	A which is far awa ver multiple interm	y from nediate	10	
	Pg. 2	ling performance by strategic use of RAM, SSD, – 24 in book "Making Sense of NoSQL" e-1 – Topic-5 in PPTs	and disk			

4.	A data architecture pattern is a consistent way of representing data in a regular structure that will be stored in memory. Explain the NoSQL data aggregation models by comparing each other. Ans: Aggregate data models Pg. 38 – 39 in book "Making Sense of NoSQL" Module-2 – Topic-1 in PPTs	10
5.	As distributed systems get larger and more spread out, the complications get more challenging. Even in a simple situation with two applications, each connected to a database and all four parts running on a separate machine, the challenges of providing the ACID guarantee is not trivial. Explain the open XA consortium solutions in distributed systems to implement the ACID principles. Ans: ACID properties in distributed acid systems Pg. 173 – 176 in book "Professional NoSQL" Module-1 – Topic-2 in PPTs	10