

MG-003-1081003 Seat No. _____

M. Sc. (I.T.) (Sem. I) (CBCS) Examination January - 2018

CS-03: NoSQL Database: MongoDB

Faculty Code: 003

	Subject Code: 1081003							
Time : $2\frac{1}{2}$ Hours] [Total Marks :								
Ins	struct	ion	: Write answers of all the questions in main answer-sheet.					
1	(A)	Atte	empt the following objective questions:	4				
		(1)	What is collection?					
		(2)	Give the full form of NoSQL.					
		(3)	MongoDB is type of NOSQL database.					
		(4)	What is database-as-a-service?					
	(B)	Atte	empt any one of the following:	2				
		(1)	List out major types of NoSQL database.					
		(2)	Explain history of NoSQL.					
	(C)	Atte	empt any one of the following:	3				
		(1)	List out the steps for installing php driver for mongodb on windows platform.					
		(2)	Define objective of NoSQL.					
	(D)	Atte	empt any one of the following:	5				
		(1)	Explain concept of data modeling and working with data.					
		(2)	Explain collection and document in detail.					
2	(A)	Atte	empt the following objective questions:	4				
		(1)	Which command displays the list of all databases?					
		(2)	stores the number of documents					
			in MongoDB.					
		(3)	db.collection.remove({}) is used for					
		(4)	What is the default port number of MongoDB?					
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	(B)	Attempt any one of the following:	2
		(1) Explain limit and skip function.	
		(2) Explain create Collection() method.	
	(C)	Attempt any one of the following:	3
		(1) Explain sort() method with example.	
		(2) Compare Relational database with NoSQL database.	
	(D)	Attempt any one of the following:	5
		(1) Explain insert() and update() with example.	
		(2) Explain find() and pretty() methods with example and output.	
3	(A)	Attempt the following objective questions:	4
		(1) method is used to start a session.	
		(2) What is session?	
		(3) Use of \$_SESSION[].	
		(4) Is HTTP stateless protocol?	
	(B)	Attempt any one of the following:	2
		(1) What is HTTP session?	
		(2) Explain concept of session management.	
	(C)	Attempt any one of the following:	3
		(1) Explain session manager class.	
		(2) Briefly explain session_set_save handler() function.	
	(D)	Attempt any one of the following:	5
		(1) Explain php native session handling with example.	
		(2) Write a php program to create login application with session using MongoDB.	
4	(A)	Attempt the following objective questions:	4
		(1) What is reduce phase?	
		(2) The phase breakdown the task into smaller subtasks and execute them to produce intermediate results.	
		(3) group() method can not be applied on a key having more than distinct values.	
		(4) What do you mean by web analytics?	
	(B)	Attempt any one of the following:	2
		(1) What is real time analytics? Explain it.	
		(2) What is MapReduce? Explain it.	

	(C)	Attempt any one of the following:	3
		(1) Explain concept of extracting analytics data with mapreduce.	
		(2) Differentiate MapReduce and group().	
	(D)	Attempt any one of the following:	5
		(1) Explain db.collection.distinct() and db.collection. count() with example.	
		(2) Write a php code for count number of employee per department with using mapreduce in mongodb.	
5	(A)	Attempt the following objective questions:	4
		(1) In replica set, minimum nodes are required.	
		(2) refers to the process of splitting data up and storing different portions of the data on different machines.	
		(3) By default GridFS limits chunk size to kb.	
		(4) What is Grid?	
	(B)	Attempt any one of the following:	2
		(1) Explain files and chunks collection.	
		(2) What is Replication? Explain it.	
	(C)	Attempt any one of the following:	3
		(1) Define explain() method.	
		(2) Write a code for reading files from GridFS.	
	(D)	Attempt any one of the following:	5
		(1) Write a program for storing files in GridFS	
		(2) Explain concept of sharding in detail.	