DCU-003-1081003 Seat No  M. Sc. I. T. (Sem. I) (CBCS) (W.E.F. 2016) Examination  August - 2022  CS-03: NoSQL Database: Mongo DB						
Faculty Code: 003 Subject Code: 1081003						
Tin	ne : 2	$2\frac{1}{2}$ Hours] [Total Marks:	ks : <b>7</b> (			
Ins	struct	tion: Write answers any five questions.				
1	(a)	Answer the following: (1) Give the full form of NoSQL. (2) In big data 3V stands for, (3) MongoDB NoSQL require schema. True or False. (4) means multiple copy of data.	4			
	(b) (c) (d)	Explain history of NoSQL.  Give the difference between SQL and NoSQL.  Explain database, collection and document.				
2	(a)	Answer the following:  (1) Large scale data or huge amount of data with 3V concept is known as  (2) MongoDB Collection in RDBMS is known as?  (3) command is used for starting mongoDB server.  (4) What is the default port address of the MongoDB?	4			
	(b) (c)	Explain database as a service. Write steps for installing php driver for mongoDB on windows platform.	2			
	(d)	Explain types of NoSQL.	Ę			
3	(a)	Answer the following:	4			

(2)

(4)

What command displays the list of all databases? Which command is used to show the collections

Which method is used to display document with

(1) JSON stands for \_\_\_\_\_.

of current database?

proper format?

	(b)	Explain find() and pretty() with example.	2
	(c)	Explain sort() method.	3
	(d)	Explain insert() and update() with example.	5
4	(a)	Answer the following:	4
		(1) BSON stands for	
		(2) In mongoDB Cursor means a pointer that points	
		to a document.	
		True or False	
		(3) MongoDB support reference document.	
		True or False	
		(4) MongoDB require fix structure like RDBMS.	
		True or False	
	(b)	Explain relationship between documents.	2
	(c)	Explain limit and skip function.	3
	(d)	Explain delete() and update() with example.	5
5	(a)	Answer the following:	4
		(1) HTTP is stateless protocol.	
		True or False	
		(2) method is used to start a session.	
		(3) Amazon EC2 stands for	
		(4) What is the use of session_destroy()?	
	(b)	Write a note on session_set_save_handler().	2
	(c)	Explain native PHP session handling.	3
	(d)	Explain session manager.	5
6	(a)	Answer the following:	4
		(1) URI stands for	
		(2) method is used to perform session	
		data GC(garbage collection).	
		(3) Session_unset() is used for	
		(4) DBaaS stands for	
	(b)	What is session?	2
	(c)	What is HTTP session?	3
	(d)	Write a code to use session in login and logout page.	5
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7	(a)	Answer the following:	4
		(1) Which function is used for aggregation in MongoDB?	
		(2) An aggregation pipeline consists of one or more	
		stages that process documents.	
		True or False	
		(3) MR stands for	
		(4) Mongosh stands for	
	(b)	What is MapReduce?	2
	(c)	Explain count() with example.	3
	(d)	Explain aggregation pipeline.	5
8	(a)	Answer the following:	4
		(1) What is the use of \$_SESSION[]?	
		(2) TCP/IP stands for	
		(3) quit() is used for	
		(4) What is session store?	
	(b)	Explain aggregation expressions. (any 3)	2
	(c)	Explain group() with example.	3
	(d)	Explain MapReduce with example.	5
9	(a)	Answer the following:	4
		(1) GridFS by default uses two collections and	
		to store the file's metadata and the chunks.	
		(2) In MongoDB, use for storing files larger	
		than 16 MB.	
		(3) A is a group of mongod instances that	
		maintain the same data set.	
		(4) Vertical Scaling involves increasing the capacity	
		of a single server. True or False	
	(b)	What is Sharding?	2
	(c)	Explain Replication.	3
	(d)	Explain GridFS and its advantages.	5
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10	(a)	Answer the following:	4
		(1) puts binary data to the grid.	
		(2) is maximum size of chunk.	
		(3) Gridfs by default have collection.	
		(4) Gridfs is used in fail over and scale out situation.  True or False	
	(b)	Explain files and chunks collection.	2
	(c)	Write a program for reading files from GridFS.	3
	(d)	Explain sharding in detail.	5