



Seat No. _____

F8Z-003-3081003

M. Sc. (I.T.) (Sem. I) (CBCS)

(W.E.F. 2022) Examination

December - 2022

NoSQL Database : MongoDB : CS-03

Faculty Code : 003

Subject Code : 3081003

00156



Time : 2½ Hours / Total Marks : 70

- 1 (A) Answer the following in One Sentence. 4
- (1) What is the default port address of the MongoDB?
 - (2) NoSQL require schema ?
 - (3) DBaaS stands for _____.
 - (4) 3V stands for _____.
- (B) Answer the following (Any One) 2
- (1) What is big data.
 - (2) Explain NoSQL database.
- (C) Answer the following (any One) 3
- (1) What is database as a service?
 - (2) Define database, collection and document in MongoDB.
- (D) Answer the following (Any One) 5
- (1) List out the steps for installing php driver for mongodb on windows platform.
 - (2) List out major types of NoSQL database.
- 2 (A) Answer the following in One sentence : 4
- (1) Which data type is used to store multiple values?
 - (2) Sort() use 1 for _____ order.
 - (3) Which method is used to display document with proper format ?
 - (4) Mongoddb support embedded document.
True or False

- (B) Answer the following : (Any One) 2
 (1) Explain update() with example.
 (2) Explain sort() method.
- (C) Answer the following : (Any One) 3
 (1) Explain find() and pretty() with example.
 (2) Explain findOne() method.
- (D) Answer the following : (Any One) 5
 (1) Write a note on managing relationships between documents.
 (2) Compare Relational database with NoSQL database.
- 3 (A) Answer the following in One sentence : 4
 (1) gc() stands for _____.
 (2) Amazon EC2 stands for _____.
 (3) SSM stands for _____.
 (4) BSON stands for _____.
- (B) Answer the following : (Any One) 2
 (1) Explain session_destroy().
 (2) Advantages of HTTP session.
- (C) Answer the following : (any One) 3
 (1) Explain gc() for session.
 (2) Explain session_set_save_handler.
- (D) Answer the following : (Any One) 5
 (1) Explain session manager.
 (2) Explain php native session handling.
- 4 (A) Answer the following in One sentence. 4
 (1) Which method is used to find the distinct values for a specified field across a single collection and returns the results in an array.
 (2) _____ is used to insert the value to an array in the resulting document but does not create duplicates.
 (3) Aggregations is equivalent to Sql count(*) and group by. True or False.
 (4) Map is a JavaScript function. True or False.

- (B) Answer the following : (any One) 2
(1) Explain real time analytics.
(2) Explain map phase.
- (C) Answer the following : (Any One) 3
(1) Explain reduce phase.
(2) Explain count() with example.
- (D) Answer the following : (any One) 5
(1) Write a code to find department wise minimum salary using MongoDB.
(2) Give the difference between Map-Reduce and group().
- 5 (A) Answer the following in One sentence : 4
(1) Gridfs is used for storing the files larger than _____.
(2) Gridfs by default have _____ collection.
(3) Gridfs is used in fail over and scale out situation. True or False.
(4) _____ node contains all other operation from primary node so they have the same data set of primary node.
- (B) Answer the following : (any One) 2
(1) What is the use of md5?
(2) Explain GridFS indexes.
- (C) Answer the following : (Any One) 3
(1) Explain sharding.
(2) Give the list of advantages and disadvantages of GridFS.
- (D) Answer the following : (Any One) 5
(1) Explain replication.
(2) What is optimization.

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