**50 multiple-choice questions (MCQs) on MongoDB**

1. What type of database is MongoDB?

a) Relational database

b) NoSQL database

c) Graph database

d) In-memory database

2. What is BSON in MongoDB?

a) A data format

b) A database type

c) A query language

d) A data modeling technique

3. What is a document in MongoDB?

a) A record in a table

b) A column in a collection

c) A row in a database

d) A JSON-like data structure

4. What is a collection in MongoDB?

a) A group of databases

b) A table in a relational database

c) A group of documents

d) A schema in a NoSQL database

5. Which of the following is the default storage engine in MongoDB?

a) MyISAM

b) InnoDB

c) WiredTiger

d) RocksDB

6. What is sharding in MongoDB?

a) Splitting a collection into multiple collections

b) Splitting a database into multiple databases

c) Splitting data across multiple servers

d) Splitting a document into multiple documents

7. What is a replica set in MongoDB?

a) A set of related collections

b) A group of sharded databases

c) A set of related documents

d) A group of MongoDB servers

8. What is the primary key in MongoDB?

a) \_id

b) \_key

c) \_index

d) \_primary

9. Which of the following is used to perform aggregation in MongoDB?

a) GROUP BY

b) JOIN

c) AGGREGATE

d) MERGE

10. What is the role of the mongod process in MongoDB?

a) Handling queries

b) Handling replication

c) Handling sharding

d) Handling data storage

11. Which of the following is used to create an index in MongoDB?

a) createIndex()

b) addIndex()

c) buildIndex()

d) makeIndex()

12. What is the role of the balancer in MongoDB?

a) Balancing the load between databases

b) Balancing the load between collections

c) Balancing the load between servers

d) Balancing the data across shards

13. Which command is used to insert data into a collection in MongoDB?

a) db.create()

b) db.insert()

c) db.add()

d) db.put()

14. What is the purpose of the find() method in MongoDB?

a) To retrieve data from a collection

b) To update data in a collection

c) To delete data from a collection

d) To create a new collection

15. What is the purpose of the update() method in MongoDB?

a) To retrieve data from a collection

b) To update data in a collection

c) To delete data from a collection

d) To create a new collection

16. What is the purpose of the remove() method in MongoDB?

a) To retrieve data from a collection

b) To update data in a collection

c) To delete data from a collection

d) To create a new collection

17. Which operator is used for equality in MongoDB?

a) $eq

b) $lt

c) $gt

d) $ne

18. Which operator is used for less than in MongoDB?

a) $eq

b) $lt

c) $gt

d) $ne

19. Which operator is used for greater than in MongoDB?

a) $eq

b) $lt

c) $gt

d) $ne

20. Which operator is used for not equal in MongoDB?

a) $eq

b) $lt

c) $gt

d) $ne

21. What is the purpose of the $in operator in MongoDB?

a) To match any of the values specified in an array

b) To match all of the values specified in an array

c) To exclude all of the values specified in an array

d) To exclude any of the values specified in an array

22. What is the purpose of the $and operator in MongoDB?

a) To perform a logical AND operation

b) To perform a logical OR operation

c) To perform a logical NOT operation

d) To perform a logical XOR operation

23. What is the purpose of the $or operator in MongoDB?

a) To perform a logical AND operation

b) To perform a logical OR operation

c) To perform a logical NOT operation

d) To perform a logical XOR operation

24. What is the purpose of the $not operator in MongoDB?

a) To perform a logical AND operation

b) To perform a logical OR operation

c) To perform a logical NOT operation

d) To perform a logical XOR operation

25. What is the purpose of the $exists operator in MongoDB?

a) To check if a field exists

b) To check if a value exists

c) To check if a document exists

d) To check if a collection exists

26. What is the purpose of the $type operator in MongoDB?

a) To check the data type of a field

b) To check the data type of a value

c) To check the data type of a document

d) To check the data type of a collection

27. What is the purpose of the $regex operator in MongoDB?

a) To perform pattern matching using regular expressions

b) To perform pattern matching using wildcard characters

c) To perform pattern matching using exact matches

d) To perform pattern matching using fuzzy logic

28. What is the purpose of the $text operator in MongoDB?

a) To perform text search

b) To perform text analysis

c) To perform text transformation

d) To perform text encryption

29. What is the purpose of the $slice operator in MongoDB?

a) To slice an array

b) To slice a string

c) To slice a document

d) To slice a collection

30. What is the purpose of the $elemMatch operator in MongoDB?

a) To match elements in an array

b) To match elements in a string

c) To match elements in a document

d) To match elements in a collection

31. What is the purpose of the $all operator in MongoDB?

a) To match all elements in an array

b)

To match all elements in a string

c) To match all elements in a document

d) To match all elements in a collection

32. What is the purpose of the $size operator in MongoDB?

a) To check the size of an array

b) To check the size of a string

c) To check the size of a document

d) To check the size of a collection

33. What is the purpose of the $push operator in MongoDB?

a) To push a value into an array

b) To pull a value from an array

c) To pop a value from an array

d) To put a value into an array

34. What is the purpose of the $addToSet operator in MongoDB?

a) To add a value to a set

b) To remove a value from a set

c) To update a value in a set

d) To check if a value exists in a set

35. What is the purpose of the $pop operator in MongoDB?

a) To push a value into an array

b) To pull a value from an array

c) To pop a value from an array

d) To put a value into an array

36. What is the purpose of the $pull operator in MongoDB?

a) To push a value into an array

b) To pull a value from an array

c) To pop a value from an array

d) To put a value into an array

37. What is the purpose of the $each operator in MongoDB?

a) To apply multiple operations

b) To apply each operation

c) To apply each value in an array

d) To apply each document in a collection

38. What is the purpose of the $sort operator in MongoDB?

a) To sort documents in ascending order

b) To sort documents in descending order

c) To sort elements in an array

d) To sort elements in a string

39. What is the purpose of the $limit operator in MongoDB?

a) To limit the number of documents returned

b) To limit the number of fields returned

c) To limit the number of elements in an array

d) To limit the number of characters in a string

40. What is the purpose of the $skip operator in MongoDB?

a) To skip documents in the result set

b) To skip fields in the result set

c) To skip elements in an array

d) To skip characters in a string

41. What is the purpose of the $sum operator in MongoDB?

a) To sum values in a field

b) To subtract values in a field

c) To multiply values in a field

d) To divide values in a field

42. What is the purpose of the $avg operator in MongoDB?

a) To calculate the average of values in a field

b) To calculate the sum of values in a field

c) To calculate the minimum value in a field

d) To calculate the maximum value in a field

43. What is the purpose of the $max operator in MongoDB?

a) To find the maximum value in a field

b) To find the minimum value in a field

c) To find the average value in a field

d) To find the sum of values in a field

44. What is the purpose of the $min operator in MongoDB?

a) To find the maximum value in a field

b) To find the minimum value in a field

c) To find the average value in a field

d) To find the sum of values in a field

45. What is the purpose of the $first operator in MongoDB?

a) To return the first document in the result set

b) To return the last document in the result set

c) To return the first value in an array

d) To return the last value in an array

46. What is the purpose of the $last operator in MongoDB?

a) To return the first document in the result set

b) To return the last document in the result set

c) To return the first value in an array

d) To return the last value in an array

47. What is the purpose of the $dayOfMonth operator in MongoDB?

a) To extract the day of the week from a date

b) To extract the day of the month from a date

c) To extract the month from a date

d) To extract the year from a date

48. What is the purpose of the $dayOfYear operator in MongoDB?

a) To extract the day of the week from a date

b) To extract the day of the month from a date

c) To extract the day of the year from a date

d) To extract the month from a date

49. What is the purpose of the $month operator in MongoDB?

a) To extract the day of the week from a date

b) To extract the day of the month from a date

c) To extract the month from a date

d) To extract the year from a date

50. What is the purpose of the $year operator in MongoDB?

a) To extract the day of the week from a date

b) To extract the day of the month from a date

c) To extract the month from a date

d) To extract the year from a date

**Answers**

1. b) NoSQL database

2. a) A data format

3. d) A JSON-like data structure

4. c) A group of documents

5. c) WiredTiger

6. c) Splitting data across multiple servers

7. d) A group of MongoDB servers

8. a) \_id

9. c) AGGREGATE

10. d) Handling data storage

11. a) createIndex()

12. d) Balancing the data across shards

13. b) db.insert()

14. a) To retrieve data from a collection

15. b) To update data in a collection

16. c) To delete data from a collection

17. a) $eq

18. b) $lt

19. c) $gt

20. d) $ne

21. a) To match any of the values specified in an array

22. a) To perform a logical AND operation

23. b) To perform a logical OR operation

24. c) To perform a logical NOT operation

25. a) To check if a field exists

26. a) To check the data type of a field

27. a) To perform pattern matching using regular expressions

28. a) To perform text search

29. a) To slice an array

30. a) To match elements in an array

31. a) To match all elements in an array

32. a) To check the size of an array

33. a) To push a value into an array

34. a) To add a value to a set

35. c) To pop a value from an array

36. b) To pull a value from an array

37. c) To apply each value in an array

38. a) To sort documents in ascending order

39. a) To limit the number of documents returned

40. a) To skip documents in the result set

41. a) To sum values in a field

42. a) To calculate the average of values in a field

43. a) To find the maximum value in a field

44. b) To find the minimum value in a field

45. a) To return the first document in the result set

46. b) To return the last document in the result set

47. b) To extract the day of the month from a date

48. c) To extract the day of the year from a date

49. c) To extract the month from a date

50. d) To extract the year from a date