



1. Point out the wrong statement

A. Non Relational databases require that schemas be defined before you can add data

B. NoSQL databases are built to allow the insertion of data without a predefined schema

C. NewSQL databases are built to allow the insertion of data without a predefined schema

D. all

A. Non Relational databases require that schemas be defined before you can add data

2. Which of the following class is used to create and consume custom events in Node.js?

A NodeEvent

B. Events

C. Event

D. **EventEmitter**

D. EventEmitter

3. What will be the output of the below code in the console?

File: my_module.js

```
exports.name = 'Zeus';
```

Code:

```
var my_module = require('/mymodule');  
console.log((function(settings){
```

```
return settings.split("").reverse().join("")  
}))(my_module.name));
```

A. Error

B. Zeus

C. undefined

D. **sueZ**

D. sueZ

4. How can you use the promise API with a callback-based function such as



child__process.exec?

- A new Promise(child__process.exec())
- B. util.promisify(child__process.exec())**
- C. util.promisify(child__process.exec)
- D. new Promise(child__process.exec)

B.
util.promisi-
fy(child__process.exec())

5. **What type of electronic document contains a public key?**

- A. digital certificate**
- B. smart card
- C. security token
- D. biometric

A. digital certificate

6. **Which statement executes the code of samplejs file?**

- A nodejs sample.js
- B. node sample.js**
- C. sample.js
- D. All the answers are wrong

B. node sample.js

7. **Which API clears the saved Dynamic Link to prevent it from being accessed twice?**

- A. getInvitation API**
- B. get API
- C. setInvitation API
- D. set API

A. getInvitation API

8. **What should you do in your code to improve your application's performance?**

- A. Don't use synchronous functions**
- B. Use gzip compression
- C. Do logging correctly
- D. Handle exceptions properly

A. Don't use synchro-
nous functions

9. **_id is ____ a bytes hexadecimal number which assures the uniqueness of every document**

C. 12



- A. 13
- B. 16
- C. 12**
- D. 10

10. Which module is used to serve static resources in Nodejs?

- A. node-static**
- B. http
- C. noderesource
- D. static

11. How can we check the current version of NPM? A. npm --version

- A. npm --version**
- B. npm --ver
- C. npm help
- D. all the answers are wrong

12. Which of these is the most logical first step in an API development project? A. Create a functional view of the related application

- A. Create a functional view of the related application**
- B. Put API usage monitoring in place
- C. Choose either an API proxy or an API gateway
- D. All the answers are wrong

13. Which statement is true about Node.js and threads? C. The event loop is single-threaded, but a JavaScript VM can use multiple threads

- A. Every Node process runs in a single thread, and all the HO work is run in that same thread
- B. Every Node process gets four threads that it can share between its JavaScript VM and the event loop
- C. The event loop is single-threaded, but a JavaScript VM can use multiple threads**
- D. JavaScript execution in Nodejs is sin-



gle-threaded, but 110 operations are executed using multiple threads

-
14. What type of authentication method identifies and recognizes people based on physical traits such as fingerprints? D. biometrics
- A. digital certificates
 - B. WEP
 - C. RADIUS
 - D. biometrics**
-
15. Which of the following ports not used by FCM? C. 5231
- A. 5228
 - B. 5229
 - C. 5230
 - D. 5231**
-
16. Which of the following can help developers coordinate API code generation processes? C. An underlying standard, like OpenAPI
- A. network layer, like an API gateway
 - B. security setup, like identity and access management
 - C. An underlying standard, like OpenAPI**
 - D. An interpreted code language, like Python
-
17. What is the Node LTS version? D. It is the safest version for long-term support
- A. It is the current unstable version and is to be avoided
 - B. It is the version that will be retired soon
 - C. It is the version with the latest features
 - D. It is the safest version for long-term support**
-
18. Which of the following is NOT a valid stream in Node? A. process.stdinfo
- A. process.stdinfo**



- B. process.stdin
- C. process.stdout
- D. process.stderr

19. You have to read a large text file, replace some words in it, and write it back to a new file. You know that the memory on your target system is limited- What should you do?
- D. Use readline together with streams to read and transform and write the file contents line by line
- A. Use regular expressions directly on the file
 - B. Use Promises and async/await to offload the task to libuv
 - C. Copy the file into a database and perform the operations there
 - D. Use readline together with streams to read and transform and write the file contents line by line

20. The Firebase data is representing ____ objects. C. JSON
- A. SQL
 - B. Mongo
 - C. JSON
 - D. Javascript

21. The mongo shell loads and parses the ____ file on C. mongorc.js startup.
- A. mongo.js
 - B. mongoc.js
 - C. mongorc.js
 - D. all of the mentioned

22. Which choice is not a valid method on event emitters? A. start
- A. start
 - B. on
 - C. once
 - D. off

23. A. the call stack



When a javaScript function is invoked (called) in Node, where is a new frame placed?

- A. the call stack**
- B. the event loop
- C. the poll phase
- D. the events queue

24. Which of the following method returns a cursor? A. find

- A. find**
- B. sort
- C. skip
- D. all of the mentioned

25. What is the most common form of authentication? C. Password

- A. Pin
- B. Public Key Infrastructure
- C. Password**
- D. Biometrics

26. When you run JavaScript in a Nodejs application, which of the following elements in a Node-is stack actually executes that JavaScript? C. The VM (like VS or Chakra)

- A. The libuv library
- B. The c-ares library
- C. The VM (like VS or Chakra)**
- D. The REPL module

27. Which global object acts like a bridge between a Node script and the host operating system? C. process

- A. v8
- B. env
- C. process**
- D. child__process

28. What will this code log to the console? B. {name: 'Jane'}



```
// File: person.js
exports.name = "Jane";

// File: index-is
const person = require('./person.js');
console.log(person);
```

- A. {'Jane'}
- B. {name: 'Jane'}**
- C. {}
- D. Jane

29. In MongoDB, _____ operations modify the data of a single collection. D. CRUD

- A. GRID
- B. All of the mentioned
- C. Read
- D. CRUD**

30. Which of the following statement will insert 400 documents in to the testData collection? B. insertData("test", "testData", 400)

- A. insertData("test", "testData", 200)
- B. insertData("test", "testData", 400)**
- C. insertData("test", 'testData', 600)
- D. all of the mentioned

31. Which habit gets developers into trouble when they develop RESTful APIs? C. Using custom API error codes

- A. Using any HTML methods
- B. Keeping old versions of APIs available
- C. Using custom API error codes**
- D. Providing state information to apps

32. Which of the following function is valid for creation of new data inside MongoDB Shell? B. function insertData(dbName, colName, num)

A.



```
function insertData(dbName, colName, num)
{
  var col = db.getSiblingDB(dbName).getCollection(colName);
  for (i = 0; i < num; i++)
  {
    col.insertData({
      x: i
    });
  }
  print(col.count());
}
```

```
{
  var col =
  db.getSiblingDB(db-
  Name).getCollection(colName);
  for (i = 0; i < num; i++)
  {
    col.insert({
      x: i
    });
  }
  print(col.count());
}
```

B.

```
function insertData(dbName, colName, num)
{
  var col = db.getSiblingDB(dbName).getCollection(colName);
  for (i = 0; i < num; i++)
  {
    col.insert({
      x: i
    });
  }
  print(col.count());
}
```

C.

```
insertData(dbName, colName, num)
{
  var col = db.getSiblingDB(dbName).getCollection(colName);
  for (i = 0; i < num; i++)
  {
    col.insert({
      x: i
    });
  }
  print(col.count());
}
```




}

D. None of the mentioned

33. The ____ message is used to update a document in C. OP__UPDATE a collection;

A. UPDATE

B. OP__UPDATES

C. OP__UPDATE

D. All of the mentioned

34. What are the commands are used to enable debugging in Express App? D. None

A. Linux

B. Windows

C. Both A and B

D. None

35. Which of the following tool automates various tasks of Node.js application? B. GruntJS

A. Express.js

B. GruntJS

C. NPM

D. All the answers are wrong

36. Which function should be used to access the specific parts of a collection that have been made available to the client? B.meteor.subscribe()

A.meteor.write()

B.meteor.subscribe()

C.meteor.publish()

D.meteor.read()

37. How to store local variables that can be access within the application? B. Using app.locals



- A. Using app.storage
- B. Using app.locals**
- C. Using database
- D. Config file

38. What are core features of Express framework? D. All of the others

- A. Allows to set up middlewares to respond to HTTP Requests
- B. Defines a routing table which can works as per HTTP Method and URL
- C. Dynamically render HTML Pages
- D. All of the others**

39. In Nodejs how node based web servers differ from traditional web servers? A. Node based server uses a single threaded model and can serve much larger number of requests compared to any traditional server like Apache HTTP Server

- A. Node based server uses a single threaded model and can serve much larger number of requests compared to any traditional server like Apache HTTP Server**
- B. Node based server process request much faster than traditional server
- C. There is no much difference between the two
- D. All the answers are correct

40. What function arguments are available to Expressjs Route handlers? D. all of the others

- A. req - the request object
- B. res - the response object
- C. next
- D. all of the others**

41. How can we create instance of http module? A. var http = require("http")

- A. var http = require("http")**
- B. var http = new require("http")
- C. var http = new http()
- D. All the answers are wrong



-
42. Which of the following method returns one document? A. findOne()
A. findOne()
B. findOne1()
C. selectOne()
D. searchOne()
-
43. _____ allows you to log on once and access multiple related by different systems without having to log on again. B. Single Sign On
A. Two Factor Authentication
B. Single Sign On
C. Multi-factor Authentication
D. Password
-
44. Which term is used in reference to the process of giving individual-access to a system or resource? B. authorization
A. authentication
B. authorization
C. accounting
D. auditing
-
45. What does RAML stand for? D. RESTful API Modeling Language
A. Reusable API Markup Listing
B. RESTful API Mobile Language
C. REST Application Modeling Language
D. RESTful API Modeling Language
-
46. Which of the following method is called while accessing documents using the array index notation ? B. cursor.toArray()
A. cur.toArray()
B. cursor.toArray()
C. doc.toArray()
D. point.toArray()



-
47. Which statement about event emitters is false?
- A. Event names must be camelCase strings
- A. Event names must be camelCase strings**
- B. The emit method allows arbitrary set of arguments to be passed to the listener functions
- C. Any values returned by the listeners for an emitted events are ignored
- D. When an event emitter object emits an event, all of the functions attached to that specific event are called synchronously
-
48. Why a Node.JS code is pretty fast although being written in JavaScript?
- C. Being built on Google Chrome's V8 JavaScript Engine
- A. Node.JS internally converts JavaScript code to Java based code and then execute the same**
- B. Node.JS internally converts JavaScript code to C based code and then execute the same
- C. Being built on Google Chrome's V8 JavaScript Engine**
- D. All the answers are wrong
-
49. How many types of Firebase Database Rule?
- C. 4
(.read, .write, .validate, .indexOn)
- A. 2
- B. 3
- C. 4**
- D. 5
-
50. What is the process of converting data into a format that cannot be read by another user?
- A. Encryption
- A. Encryption**
- B. Keying
- C. Locking
- D. Registering
-
51. D. PIN



Which of the following is a secret numeric password used for authentication?

- A. security token
- B. digital certificate
- C. digital signature
- D. PIN**

52. What method is used for filtering in Firebase?

D. All the answers are correct

- A. equalTo() method
- B. endAt() method
- C. startAt() method
- D. All the answers are correct**

53. Which one of the following is equivalent in MongoDB select" from employee order by salary desc;?

B. db.employee.sort ({"salary":-1}]

- A. db.employee.find.sort({"salary":1}]
- B. db.employee.sort ({"salary":-1}]**
- C. db.employee.sort({"salary":1}]
- D. db.employee.find.sort ({"salary":-1}

54. Which module variable holds the resolved absolute path of the current module file?

D. __filename

- A. __pathname
- B. __location
- C. __flder
- D. __filename**

55. Which choice is not a subclass of the Error class? A. GlobalError

- A. GlobalError**
- B. TypeError
- C. RangeError
- D. AssertionError

56.



Which of the following is true about RESTful web services? C. All the answers are correct

A. Webservices based on REST Architecture are known as RESTful web services

B. Web services uses HTTP methods to implement the concept of REST architecture

C. All the answers are correct

D. All the answers are wrong

57. **Which method used to update the Firebase data?** D. update

A. alter

B. put

C. set

D. update

58. **Point out the correct statement.**

D. All of the mentioned

A. Collection is a group of MongoDB documents

B. MongoDB is an open-source document database, and leading NoSQL database

C. Collections do not enforce a schema

D. All of the mentioned

59. **Which of the following statements holds good with respect to Node?**

D. All of the others

A. Node being a single thread, and uses async function calls to maintain the concurrency

B. Every API of Node is are asynchronous

C. Node thread keeps an event loop and whenever any task get completed, it fires the corresponding event which signals the event listener function to get executed

D. All of the others

60. **Which is the best command to run in order to empty your Mongo database?**

D. meteor reset



- A. meteor remove Mongo
- B. meteor list
- C. meteor repair
- D. meteor reset**

61. MongoDB can be used as a ____, taking advantage of load balancing and data replication features over multiple machines for storing files

- A. AMS**
- B. CMS
- C. File system
- D. None of the mentioned

62. When we want to detach all callbacks, we can use : playersRef.off();

- A. True**
- B. False
- C. Can be true or false
- D. Can not say

63. When a request event is received in the HTTP module, what is the type of the first argument passed to that event, usually named req?

B. http.IncomingMessage

- A. http.ServerRequest
- B. http.IncomingMessage**
- C. http.ClientRequest
- D. http.ServerResponse

64. Cookies are complex, large files/data that are sent to server with a client request and stored on the server side.

- A. True
- B. False**
- C. Can be true or false
- D. Can not say



-
65. Which is the best syntax to add a new entry to a Mongo database?
- A. `db.insert({"title":"Two Cities"})`
B. `db.add("title":"'Two Cities'")`
C. `db.insert({"title","Two Cities"})`
D. `db.add("title","Two Cities")`
- <https://www.mongodb.com/docs/manual/reference/method/db.collection.insert/>
-
66. How can you count the number of logical CPUs on the machine that is running Node?
- A. `node -p "process.cpus"`
B. `node -p "util.cpus().size"`
C. `node -p "process.os.cpus"`
D. `node -p "os.cpus().length"`
-
67. Which of the following is best practices for fire-base?
- A. Avoid Nesting Data
B. Denormalize Data
C. Both A and B
D. All the answers are wrong
-
68. Which method requests that the server accept the data enclosed in the request as a modification to existing object identified by the URI?
- A. GET
B. DELETE
C. POST
D. PUT
-
69. What are the arguments passed to the module wrapper function?
- A. exports
B. process
C. module
D. module



C. require
D. module

70. What are the arguments passed to the module wrapper function?
- A. exports, __filename, __dirname
B. exports, process, require, module, __filename, __dirname
C. exports, module, __filename, __dirname
D. exports, require, module, __filename, __dirname
71. Which method will write or replace data on a specified path?
- A. SET
B. GET
C. PUT
D. USE
72. Which syntax is correct for declaring a Mongo collection named theFarm?
- A. farmdb = new Mongo.Collection('theFarm');
B. farmdb = new Mongo.collection('theFarm');
C. farmdb = new mongo.Collection('theFarm');
D. farmdb = new mongo.collection('theFarm');
- A. farmdb = new Mongo.Collection('theFarm');
- <https://docs.meteor.com/api/collections>
73. In combination with a request method, root paths define the endpoints at which requests can be made. Which of the following are valid forms of route path?
- A. strings
B. string patterns
C. regular expressions
D. All the answers are correct

74.



Which of the following packages prevents writing to the Mongo collection when it is removed?

- A. autopublish
- B. insecure**
- C. tracker
- D. mongo

<https://docs.meteor.com/api/collections#Mongo-Collection-deny>

75. Which core module in Node can you use to compile and run JavaScript code in a sandbox environment?

- A. sandbox
- B. buffer
- C. vm**
- D. v8

C. vm

76. MongoDB has been adopted as software by a number of major websites and services.

- A. Front-end
- B. Back-end**
- C. Proprietary
- D. All of the mentioned

B. backend

77. Which block function has the correct syntax to display several documents that have been sent to a template?

- A. {{each photos}}
- B. {{#each photos}}**
- C. ((each photos))
- D. ((#each photos))

B. {{#each photos}}
(Handlebars template engine)

78. ____ can be used for batch processing of data and aggregation operations

- A. Hive
- B. MapReduce**

B. MapReduce



C. Oozie

D. None of the mentioned

79. Imagine that you sent the following ajax request: C. 'OneTwo'

```
$.post("/process", {name:'john'}, function(data){
// Do some stuff
});
```

What will be the answer from the server?

Tip: On server side, we have the code which is given below

Code:

```
app.post('/process', function(req, res) {
var data = "";
if (req.xhr) {
data += 'One';
}
if (req.body.name) {
data += 'Two';
}
res.send(data);
});
```

A. 'One'

B. 'Two'

C. 'OneTwo'

D. All of these

Giêi thích:

1.Bên client gíi post request b±ng ojn code này (ây là AJAX)

```
$.post("/process",
{name:'john'},
function(data){
// Do some stuff
});
```

"/process" : là route
{name:'john'} : là ph§n body cça request
function(data){} : là callback function

2.Bên server nh-n post request và xí lý b±ng ojn code này

```
app.post('/process',
function(req, res) {
var data = "";
if (req.xhr) {
data += 'One';
}
if (req.body.name) {
data += 'Two';
}
res.send(data);
});
```

+Lúc này mÙt biệ n r±ng tên là data òã tjo ra ==> data = "



+if §u tiên kiẤm tra xem mÙt request có °ãc gíi b± AJAX hay không, lúc này req.xhr tr£ vẢ true và thêm dĩ liÇu ==> data = 'One'

+if thê hai kiẤm tra xem body cặa request có dĩ liÇu hay không, dĩ liÇu cặa body lúc này là {name:'john'} và thêm dĩ liÇu ==> data = 'OneTwo'

+Server tr£ mÙt response vỦi giá trỄ là 'OneTwo' vẢ client

80. Which of the following is the correct way to get a normalized path?
- A. `path.normalize('/test/test1//2slashes/1slash/tab/..')`
- B. `fs.normalize('/test/test1//2slashes//1slash/tab/..')`
- C. `os.normalize('/test/test1//2slashes//1slash/tab/..')`
- D. All the answers are wrong
81. How would you determine the number of cluster instances to start when using the cluster module?
- A. `const numInstances = cluster.instances().length;`
- B. `const numInstances = cluster.instances();`
- C. `const numInstances = require('os').cpus().length;`
- D. `const numInstances = process.cpus().length;`

82.



What is the correct way to pipe a readable stream and a writable stream?

- A. readableStream.pipe(writableStream)**
- B. readableStream.on(pipe, writableStream)
- C. writableStream.pipe(readableStream)
- D. writableStream.on(pipe, readableStream)

A. readableStream.pipe(writableStream)

83. Which of the following method returns true if the cursor has documents?

- A. hasMethod()
- B. hasDoc()
- C. hasNext()**
- D. All of the mentioned

C. hasNext()

84. ____ is the term used in reference to two or more authentication methods used to authenticate someone.

- A. Multifactor authentication**
- B. Two-factor authentication
- C. Single Sign On
- D. Passwords

A. Multifactor authentication

85. Which of the following objects allows you to get the value of the parameters on the URL?

- A. req.params object**
- B. app.locals object
- C. reg.data object
- D. All the answers are wrong

A. req.params object

86. When might development teams select SaaS when creating APIs?

- A. When an API does not fit in the current development toolchain
- B. When you are working on small, fast-evolving projects

D. All of these scenarios



C. When in-house tool building costs are a concern

D. All of these scenarios

87. **Is it possible to write tests in Node.js without an external library?** B. yes, through the assert module

A. yes, through the debugger module

B. yes, through the assert module

C. yes, through the console module

D. no

88. **MongoDB stores all documents in:** B. Collections

A. Tables

B. Collections

C. Rows

D. All of the mentioned

89. **What code print the endianness of operating system?** C. console.log('endianness : ' + os.endianness());

A. console.log('endianness : ' + os.getEndianness());

B. console.log('endianness : ' + os.endianness);

C. console.log('endianness : ' + os.endianness());

D. All the answers are wrong.

90. **What is the process of identifying an individual?** A. authentication

A. authentication

B. authorization

C. accounting

D. auditing

91. **Which syntax returns the first matching result in a Mongo database?** D. db.findOne()

A. db.find()

B. db.Find()



C. db.findone()
D. db.findOne()

-
92. Which of the following statements is used to install the Node.js express module? C. \$ npm install express
- A. \$ node install express
B. \$ install express
C. \$ npm install express
D. All the answers are wrong
-
93. Which of the following is second argument to projection ? D. find()
- A. findOne()
B. findOne1()
C. selectOne()
D. find()
-
94. What are the key features of Node.js? D. All the answers are correct
- A. Real time Data intensive
B. Highly scalable servers for Web Applications
C. Builds fast and scalable network Applications
D. All the answers are correct
-
95. The mongo shell and the MongoDB drivers use as the default write concern. C. Acknowledged
- A. Nacknowledged
B. Acknowledgement
C. Acknowledged
D. All of the mentioned
-
96. Which of these API management strategies picks a specification of a RESTful API and supports adaptation of that model to the specific interface requirements of a project? B. The model approach
- A. The open process approach



B. The model approach

C. The iPaaS approach

D. All the answers are wrong

97. What kind of apps is Firebase a backend for building? D. All the answers are correct

A. Web

B. Android

C. IOS

D. All the answers are correct

98. Firebase is a backend platform for building? D. All of the above

A. Web

B. Android

C. IOS

D. All of the above

99. Which of the following is not an Firebase Advantages? D. Firebase free plan is limited to 50 Connections

A. No need for complicated configuration.

B. The data is real-time

C. Firebase offers simple control dashboard

D. Firebase free plan is limited to 50 Connections

100. The Firebase data is representing _____ objects. C. JSON

A. SQL

B. Mongo

C. JSON

D. Javascript

101. Firebase Year of invention? B. 2012

A. 2011

B. 2012



- C. 2013
- D. 2014

102. Founders of Firebase?

B. James Tamplin

- A. Google
- B. James Tamplin
- C. Donald D. Chamberlin
- D. Raymond F. Boyce

103. The _____ method will create a unique id when the data is pushed.

- A. pop()
- B. key()
- C. push()
- D. unique()

104. We can get any key from Firebase by using the _____ method.

A. key()

- A. key()
- B. firebase.key()
- C. fb.key()
- D. firebase().key

105. If we want to get access of deleted data, we can use _____ event type.

D. child_removed

- A. value
- B. child_added
- C. child_changed
- D. child_removed

106. To authenticate a user, we can use the ?

C. createUserWithEmailAndPassword()

- A. createEmailAndPassword()
- B. createUser()
- C. createUserWithEmailAndPassword()
- D. createWithEmailAndPassword()



-
107. We can logout the user with the _____ method. B. signOut()
- A. Exit()
B. signOut()
C. POP()
D. POPOUT()
-
108. What is the full form of FCM in firebase? B. Firebase Cloud Messaging
- A. Firebase Cloud Merge
B. Firebase Cloud Messaging
C. Flexible Cloud Messaging
D. None of the above
-
109. limitToFirst method returns the specified number of items beginning from the first one. A. TRUE
- A. TRUE
B. FALSE
C. Can be true or false
D. Can not say
-
110. Express is a minimal and flexible _____ web application framework. A. Node.js
- A. Node.js
B. React.js
C. Redux.js
D. Angular.js
-
111. When did Express js Initial release? B. 2010
- A. 2009
B. 2010
C. 2011
D. 2012
-
112. C. TJ Holowaychuk



Express was developed by ?

- A. Microsoft
- B. Facebook
- C. TJ Holowaychuk
- D. Rasmus Lerdorf

113. Pug earlier known as ?

D. Jade

- A. Terse
- B. DRY
- C. Express
- D. Jade

114. Which function tells what to do when a get request at the given route is called?

A. app.get(route, callback)

- A. app.get(route, callback)
- B. get(route, callback)
- C. js.get(route, callback)
- D. fun.get(route, callback)

115. backlog arguments defines as?

C. The maximum number of queued pending connections

- A. A port number on which the server should accept incoming requests.
- B. Name of the domain
- C. The maximum number of queued pending connections
- D. An asynchronous function that is called when the server starts listening for requests.

116. Which method requests that the server accept the data enclosed in the request as a new object/entity of the resource identified by the URI?

D. POST

- A. GET
- B. PUT
- C. SET
- D. POST



-
117. Which of the following is a templating engine for Express?
A. SUG
B. PUG
C. DUG
D. NUG
-
118. This method of using values is called ?
A. filters
B. interpolation
C. inheritance
D. includes
-
119. _____ can also be used to include plain-text, css and JavaScript.
A. filters
B. interpolation
C. inheritance
D. includes
-
120. What are core features of Express framework?
A. Allows to set up middlewares to respond to HTTP Requests
B. Defines a routing table which can works as per HTTP Method and URL
C. Dynamically render HTML Pages
D. All of the above
-
121. How to store local variables that can be access within the application?
A. Using app.locals
B. Using app.storage
C. Using database
D. Config file



122. _____ is a middleware which parses cookies C. cookie-parser
attached to the client request object.

- A. cookie
- B. req.cookies
- C. cookie-parser
- D. None of the above

123. Where is captured values are populated regarding C. app.params?
route parameters?

req.params... ché

- A. req.data
- B. app.locals
- C. app.params
- D. All the answers are correct

124. _____ allows us to easily create a skele- D. Scaffolding
ton for a web application

- A. Authentication
- B. APIs
- C. Debugging
- D. Scaffolding

125. In order to use Mongo with Express, we need a A. TRUE
client API for node.

- A. TRUE
- B. FALSE
- C. Can be true or false
- D. Can not say

126. HTTP is stateless A. TRUE

- A. TRUE
- B. FALSE
- C. Can be true or false
- D. Can not say



127. Which of the following is a core module in Node? B. crypto

- A. webpack
- B. crypto
- C. request
- D. chalk

128. Which of the following Buffer class methods returns an uninitialized buffer? A. allocUnsafe

- A. allocUnsafe
- B. concat
- C. from
- D. alloc

129. Which of the following modules is NOT a built-in module in Node? A. ftp

- A. ftp
- B. events
- C. dgram
- D. http2

130. Which fs module method can be used to read the content of a file without buffering it in memory? C. createReadStream

- A. read
- B. readFile
- C. createReadStream
- D. readFileSync

131. Which of the following DNS module methods uses the underlying OS facilities and does not necessarily perform any network communication? A. lookup

- A. lookup
- B. resolve
- C. resolve4
- D. reverse



132. Can you create an https web server with Node.js? B. yes, with the https or http2 modules
- A. no, there are no modules supporting it yet
 - B. yes, with the https or http2 modules**
 - C. yes, through the path module
 - D. yes, with the http module

133. What is the Api that is designed to insulate Addons from changes in the underlying JavaScript engine? C. N-API
- A. A-API
 - B. Z-API
 - C. N-API**
 - D. X-API

134. Which CLI option can you use to debug a node script in Chrome DevTools? --inspect
- A. --dev-tools
 - B. --inspect**
 - C. --chrome
 - D. --debug

135. Which of the following statement is correct in the case of backlog arguments? C. The maximum number of queued pending connections.
- A. A port number on which the server should accept incoming requests.
 - B. The backlog argument is the name of the domain.
 - C. The maximum number of queued pending connections.**
 - D. An asynchronous function is called when the server starts listening for requests.

136. In Express.js, the method `app.all(path, callback [, callback ...])` is: A. True
- A. True**



- B. False
- C. Cannot say

137. Which of the following command is used to check npm --version the current version of NPM?

- A. nmp --ver
- B. npm --version
- C. npm help
- D. None of the above.

138. What is the meaning of templating in Express.js? D. All of the above.

- A. Pug
- B. EJS
- C. Mustache
- D. All of the above.

139. Which of the following is the correct syntax to use Express.js in Node? C. var app = require('express')();

- A. var = require('express')();
- B. var _require('express')();
- C. var app = require('express')();
- D. None of the above.

140. Which of the following is the correct statement in the context of Express.js? A. Express is a minimal and flexible Node.js web application framework.

- A. Express is a minimal and flexible Node.js web application framework.
- B. Express is a minimal and flexible React.js web application framework.
- C. Express is a minimal and flexible Redux.js web application framework.
- D. Express is a minimal and flexible Angular.js web application framework.

141. Which of the following is a middleware in Express.js?

- C. function(req,res,next){ }



- A. `function(req){ }`
- B. `method(req){ }`
- C. `function(req,res,next){ }`
- D. `method(req,res,next){ }`

142. In Express.js, the method `app.all(path, callback [, A. True
callback ...])` can accept all HTTP methods:

- A. True
- B. False
- C. Insufficient data
- D. None of the above

143. Which of the following is the Scaffolding in Express.js? D. Both A & B

- A. Yeoman
- B. Express application generator
- C. Handler functions
- D. Both A & B

144. Which of the following function arguments are available to Express.js Route handlers? D. All of the above

- A. `req` - the request object
- B. `res` - the response object
- C. `next`
- D. All of the above

145. How is it possible to create chainable route handlers for a route path in Express.js? A. Using `app.route()`

- A. Using `app.route()`
- B. Using `app.routes()`
- C. Using `app.router()`
- D. Using `app.routing()`

146. What is the way to store local variables that can be accessed within the application? C. Using `app.locals`



- A. Using Config file
 - B. Using database
 - C. Using app.locals
 - D. Using app.storage
-

147. In which of the following year was Express.js initially released? A. November 2010

- A. November 2010
 - B. November 2011
 - C. December 2010
 - D. December 2011
-

148. Who is credited as the developer of Express.js? C. TJ Holowaychuk

- A. Larry wall
 - B. Rich Hickey
 - C. TJ Holowaychuk
 - D. Rob Pike
-

149. Which of the following language is MongoDB written in? D. All of the mentioned

- A. Javascript
 - B. C
 - C. C++
 - D. All of the mentioned
-

150. Point out the correct statement.

- A. MongoDB is classified as a NoSQL database
- B. MongoDB favours XML format more than JSON
- C. MongoDB is column oriented database store
- D. All of the mentioned

A. MongoDB is classified as a NoSQL database

151. Which of the following format is supported by MongoDB?

C. BSON

- A. SQL
- B. XML



C. BSON

D. All of the mentioned

152. MongoDB Queries can return specific fields of documents which also include user-defined _____ functions.

A. Javascript

A. Javascript

B. C

C. C++

D. All of the mentioned

153. Point out the wrong statement.

A. Secondary indices are not available in MongoDB

A. Secondary indices are not available in MongoDB

B. MongoDB supports search by field, range queries, regular expression searches

C. MongoDB can store the business subject in the minimal number of documents

D. All of the mentioned

154. Initial release of MongoDB was in the year?

C. 2009

A. 2000

B. 2005

C. 2009

D. 2011

155. MongoDB is a _____ database that provides high performance, high availability, and easy scalability.

C. document

A. graph

B. key value

C. document

D. all of the mentioned

156. Dynamic schema in MongoDB makes _____ easier for applications.

B. polymorphism



- A. inheritance
 - B. polymorphism**
 - C. encapsulation
 - D. none of the mentioned
-

157. With _____ MongoDB supports a complete backup solution and full deployment monitoring. A. MMS

- A. MMS**
 - B. AMS
 - C. CMS
 - D. DMS
-

158. MongoDB provides high _____ with replica sets. B. availability

- A. performance
 - B. availability**
 - C. scalability
 - D. none of the mentioned
-

159. Point out the correct statement.

- A. MongoDB cannot be used as a file system
 - B. MongoDB can run over single servers only
 - C. Embedded documents and arrays reduce the need for joins**
 - D. None of the mentioned
-

C. Embedded documents and arrays reduce the need for joins

160. _____ replicas maintain a copy of the data on the primary using built-in replication. B. Secondary

- A. Primary
 - B. Secondary**
 - C. Backup
 - D. All of the mentioned
-

161. MongoDB scales horizontally using _____ for load balancing purposes. C. Sharding



- A. Replication
- B. Partitioning
- C. Sharding
- D. None of the mentioned

162. Point out the wrong statement.

- A. Each replica set member will act in the role of the primary replica only
- B. The primary replica performs all writes and reads by default
- C. Secondaries can also perform read operations, but the data is eventually consistent by default
- D. None of the mentioned

A. Each replica set member will act in the role of the primary replica only

163. MongoDB supports fixed-size collections called _____ collections.

- A. Primary
- B. Secondary
- C. Capped
- D. All of the mentioned

C. Capped

164. MongoDB uses a _____ lock that allows concurrent read access to a database but exclusive write access to a single write operation.

- A. Readers
- B. Readers-writer
- C. Writer
- D. None of the mentioned

B. Readers-writer

165. Which of the following sorting is not supported by MongoDB?

- A. Collation
- B. Collection
- C. Heap
- D. None of the mentioned

A. Collation



166. Point out the wrong statement.

- A. Database is a physical container for collections
- B. A single MongoDB server typically has single databases
- C. Collection is the equivalent of an RDBMS table
- D. None of the mentioned

B. A single MongoDB server typically has single databases

167. _id is a _____ bytes hexadecimal number which assures the uniqueness of every document.

- A. 13
- B. 16
- C. 12
- D. 10

C. 12

168. The mongo shell loads and parses the _____ file on startup.

- A. mongo.js
- B. mongoc.js
- C. mongorc.js
- D. All of the mentioned

C. mongorc.js

169. To iterate the cursor and return more documents, B. it type _____ in the mongo shell.

- A. cursor
- B. it
- C. next
- D. None of the mentioned

170. Which of the following key is used to denote uniqueness in the collection?

- A. _id
- B. id

A. _id



C. id_

D. None of the mentioned

171. Which of the following will implicitly create the collection testData?

A.

```
while (var i = 1; i <= 25; i++) { db.testData.insert( { x : i } ) }
```

B.

```
for (var i = 1; i <= 25; i++) { db.testData.insert( { x : i } ) }
```

C.

```
for (var i = 1; i <= 25; i++) { db.testData.inserts( { x : i } ) }
```

D. None of the mentioned

B.

```
for (var i = 1; i <= 25; i++) { db.testData.insert( { x : i } ) }
```

172. Which of the following function is valid for creation of new data inside MongoDB Shell?

A.

```
function insertData(dbName, colName, num) {  
  var col = db.getSiblingDB(dbName).getCollection(colName);  
  for (i = 0; i < num; i++) { col.insertData({x:i}); }  
  print(col.count()); }
```

B.

```
function insertData(dbName, colName, num) {  
  var col = db.getSiblingDB(dbName).getCollection(colName);  
  for (i = 0; i < num; i++) { col.insert({x:i}); }  
  print(col.count()); }
```

C.

```
insertData(dbName, colName, num) { var col = db.getSiblingDB(dbName).getCollection(colName);  
  for (i = 0; i < num; i++) { col.insert({x:i}); }
```

B.

```
function  
insertData(dbName, colName, num) { var col = db.getSiblingDB(dbName).getCollection(colName);  
  for (i = 0; i < num; i++) { col.insert({x:i}); }  
  print(col.count()); }
```



```
} print(col.count()); }
```

D. None of the mentioned

173. Which of the following is a method on the console C. time object?

- A. exit
- B. test
- C. time
- D. print

174. Which object is used to manage the cache of required modules? D. require.cache

- A. global.cache
- B. module.cache
- C. process.cache
- D. require.cache

175. What is the command to silence all process warnings? B. node --no-warnings

- A. node index.js --trace-warnings
- B. node --no-warnings
- C. node -trace-warnings
- D. node index.js --no-warnings

176. How can you use the promise API with a callback-based function such as child_process.exec? C. util.promisify(child_process.exec)

- A. new Promise(child_process.exec())
- B. util.promisify(child_process.exec())
- C. util.promisify(child_process.exec)
- D. new Promise(child_process.exec)

177. Which of the following is NOT a Node repl command? B. .history



- A. .break
- B. .history
- C. .editor
- D. .save

178. Which statement is true when you run the code shown below?
`require('child_process').fork('script.js');`

C. The forked process will have its own VM instance.

- A. The forked process shares the event loop with the parent process
- B. A new VM instance is created and the two VM instances will be shared between the forked process and the parent process.
- C. The forked process will have its own VM instance.
- D. The forked process shares the same VM thread with the parent process.

179. If EventEmitter is in scope, which of the following lines of code will have an event emitter emitting a change event?

A. EventEmitter.emit('change');

- A. EventEmitter.emit('change');
- B. EventEmitter.new().emit('change');
- C. (new EventEmitter()).emit('change');
- D. new EventEmitter('change');

180. Which of the following objects is a stream?

B. process.stdout

- A. process.uptime
- B. process.stdout
- C. process
- D. Buffer

181. If the child_process module methods are in scope, what is a current way to execute the command ps -ef using a child process?

B. exec("ps -ef")

- A. spawn("ps -ef")



- B. `exec("ps -ef")`
- C. `exec("ps", "-ef")`
- D. `fork("ps -ef")`

182. Which console method can be used to print the stack trace to the point of its execution?

- A. `stack`
- B. `trace`
- C. `debug`
- D. `print`

183. Looking at the code below, what does the console show?

```
const http = require('http');
const hostname = '127.0.0.1';
const port = 3000;
const server = http.createServer((req, res) => {
  res.statusCode = 200;
  res.setHeader("Content-Type", "text/plain");
  res.end("Hello World\n");
});
server.listen(port, hostname, () => {
  console.log(`server running at http://${hostname}:${port}/`);
});
```

- A. server running at `http://localhost:3000/`
- B. server running at port 3000
- C. server running at `http://localhost:4000/`
- D. server running at `http://127.0.0.1:3000/`

L°u ý:
Có 1 câu t°ỉng tĩ, câu này
hĩi console log, câu kia
hĩi response

D. server running at
`http://127.0.0.1:3000/`

184. What is the purpose of the path module?

- A. to provide utilities to play with file and directory paths
- B. to provide utilities to add and remove files

A. to provide utilities to
play with file and direc-
tory paths



- C. It is a retiring module.
- D. to provide utilities to test files

185. How do you make an HTTP server object active and listen to requests on certain ports?

- A. server.start
- B. server.activate
- C. server.listen
- D. server.run

186. What does the code shown below do?

```
const fs = require('fs');
const os = require('os');
const system = os.platform();
const user = os.userInfo().username;
fs.appendFile('hello.txt', `Hello ${user} on ${system}`, (err) => {
  if (err) throw err;
  console.log('The data was appended to file!');
});
```

- A. creates a text file hello.txt and appends customized text
- B. creates an image file
- C. console logs system information
- D. creates a file named data and append numbers

187. How do you start a Node application, if the entry file is indexjs?

- A. nodemon start
- B. start index.js
- C. node index.js
- D. node start

188. What is the purpose of the file system (fs) module?

- B. to provide methods to work with files



- A. to provide methods to work with requests and responses
- B. to provide methods to work with files
- C. to provide methods to work with databases
- D. to find new file systems

189. What is the Node LTS version?

- A. It is the current unstable version and is to be avoided.
- B. It is the version that will be retired soon.
- C. It is the version with the latest features.
- D. It is the safest version for long-term support.

D. It is the safest version for long-term support.

190. You have a script.js file with the single line of code shown here. What will be the output of executing script.js with the node command?
`console.log(arguments);`

- A. ReferenceError: arguments is not defined
- B. an empty string
- C. undefined
- D. an object representing an array that has five elements

A. ReferenceError: arguments is not defined

191. Which special object is an instance of EventEmitter?

- A. process
- B. Buffer
- C. root
- D. require

A. process

192. What is the command to get a list of available commands for Node.js? What is the command to get a list of available commands for Node.js?

- A. node index.js -x
- B. node -v

C. node -h



C. node -h

D. node index.js -h

193. Which library provides Node.js with the event loop?

C. libuv

A. V8

B. c-ares

C. libuv

D. events

194. What does the .node file extension represent?

B. a C++ Addon file that is built with node-gyp

A. a C++ file that can have a .node extension and that Node will be able to execute directly.

B. a C++ Addon file that is built with node-gyp

C. a JSON file that can have a .node extension as well as the .json extension

D. a JavaScript file that can have a .node extension as well as the .js extension

195. What can you export with module.exports?

D. functions, objects, arrays, or anything you assign to the module

A. only objects.

B. only functions

C. only variables and arrays

D. functions, objects, arrays, or anything you assign to the module

196. Which core module in Node can you use to take advantage of multicore systems?

C. cluster

A. os

B. util

C. cluster

D. net

197. Which core Node module has wrappers for OpenSSL methods?

C. crypto



- A. SSL
- B. hash
- C. crypto
- D. TLS

198. Which line imports a promise-based version of the readFile method?

A. `const { readFile } = require(fs).promises`

- A. `const { readFile } = require(fs).promises`
- B. `const { readFile } = require(fs)`
- C. `const { readFilePromises: readFile } = require(fs)`
- D. `const { readFile } = require(promises)`

199. According to the rules of semantic versioning, what does a release incrementing the third number in an npm version string communicate to users about the release changes?

C. Changes are just bug fixes and no new features were added.

- A. Changes are not backwards compatible.
- B. Changes might not be backward compatible and might break existing code.
- C. Changes are just bug fixes and no new features were added.
- D. Changes will add new functionality but will not break any existing code.

200. What does REPL stand for?

B. read, eval, print, loop

- A. run, examine, put, loop
- B. read, eval, print, loop
- C. run, edit, print, loop
- D. read, extend, print, loop

201. Which file does node-gyp use to read the build configuration of a module?

B. binding.gyp

- A. .gyprc
- B. binding.gyp



- C. gyp.json
- D. package.gyp

202. Which core module in Node can you use for testing?

- A. chai
- B. jest
- C. assert
- D. mocha

203. Which core module in Node provides an API to register callbacks to track asynchronous resources created inside a Node.js application?

B. async_hooks

- A. cluster
- B. async_hooks
- C. dgram
- D. inspector

204. Which Node.js module should you use when you need to decode raw data into strings?

C. string_decoder

- A. buffer
- B. util
- C. string_decoder
- D. string_buffer

205. Which global object acts like a bridge between a Node script and the host operating system?

C. process

- A. v8
- B. env
- C. process
- D. child_process

206. You have to read a large text file, replace some words in it, and write it back to a new file. You know that the memory on your target system is limited. What should you do?

D. Use readline together with streams to read and transform



- A. Use regular expressions directly on the file.
- B. Use Promises and async/await to offload the task to libuv.
- C. Copy the file into a database and perform the operations there.
- D. Use readline together with streams to read and transform and write the file contents line by line.

and write the file contents line by line.

207. Which choice is not a Node global object?

B. exports

- A. process
- B. exports
- C. setTimeout
- D. Buffer

208. How can you convert path segments into a string using the platform-specific separator as a delimiter?

B. path.join

- A. path.concat
- B. path.join
- C. path.format
- D. path.parse

209. What is the purpose of N-API?

B. to insulate Addons from changes in the underlying JavaScript engine

- A. to allow users to make requests to the server
- B. to insulate Addons from changes in the underlying JavaScript engine
- C. to execute multi-threaded code in the Node environment
- D. to provide a quick way for users to create REST APIs

210. What is a process object and its role?

D. a global object that provides information about the current node process

- A. a locally scoped object that provides information about the current node process
- B. a global object that provides information about



files

C. a global object that provides information about the database

D. a global object that provides information about the current node process

211. What will this code log to the console?

D. {}

```
// File: person.js
exports = "John";
```

```
// File: index.js
const person = require('./person.js'); console.log(person);
```

A. John

B. Undefined

C. {'John'}

D. {}

212. Which assert module method is usually used to test the error-first argument in callbacks?

D. ifError

A. fail

B. doesNotThrow

C. deepStrictEqual

D. ifError

213. Which choice is not a method on the util module?

B. asyncify

A. promisify

B. asyncify

C. types

D. callbackify

214. What is Node built on?

B. V8 JavaScript engine

A. Python

B. V8 JavaScript engine



C. PHP

D. c

215. How does it affect the performance of a web application when an execution path contains a CPU-heavy operation, such as calculating a long Fibonacci sequence?

A. As Node.js is asynchronous, this is handled by a libuv and a threadpool. The performance will not notably degrade.

B. As the application code runs asynchronously within a single thread, the execution will block, accepting no more requests until the operation is completed.

C. As Node.js is asynchronous, this is handled by a threadpool and the performance will not notably degrade.

D. The current thread will block until the execution is completed and the operating system will spawn new threads to handle incoming requests. This can exhaust the number of allowed threads (255) and degrade performance over time.

D. The current thread will block until the execution is completed and the operating system will spawn new threads to handle incoming requests. This can exhaust the number of allowed threads (255) and degrade performance over time.

216. What is used for parsing and running Javascript in Node.js?

A. EventLoop

B. Libuv

C. Google V8

D. Express.js

C. Google V8

217. What is the importance of having good practices around status code in your response?

A. It indicates success or failure to the client and helps with testing.

B. It is not important to have good practices regarding status codes

A. It indicates success or failure to the client and helps with testing.



C. Response codes are the only way you can tell what is happening on the server.
D. It contains information about the current performance of the server.

218. **How can ECMAScript modules be used natively in Node?**
- A. ECMAScript modules cannot be used natively in Node.**
B. ECMAScript modules can be used natively in Node with the .mjs file extension
C. ECMAScript modules can be used natively in Node only by using a compiler like Babel.
D. ECMAScript modules can be used natively in Node only by using a bundle like webpack.
- B. ECMAScript modules can be used natively in Node with the .mjs file extension
219. **When exploring the Node documentation's features, what are the stability ratings?**
- A. They are an indication of the stability of Nodejs modules and usage recommendations.**
B. They tell if a feature is ES6 compliant.
C. They are a Node command to validate stability of your code.
D. They tell if a feature is LTS (Long Term Supported).
- A. They are an indication of the stability of Nodejs modules and usage recommendations.
220. **When you require(something), where will Node.js attempt to resolve(something)?**
- A. the local .modules folder, then the parents' node_modules folder**
B. the local node_modules folder, then the parents' node_modules folder
C. the .modules folder under the home directory
D. a "something.js" file or a "something" folder, which exist on the same level as the requiring file
- B. the local node_modules folder, then the parents' node_modules folder

221. **B. openssl**



An external library has its own codebase and license. It is not managed by the Node.js core team. Which choice is an external library that Node.js uses?

- A. net
- B. openssl**
- C. cluster
- D. events

222. What is the main purpose of the package-lock.json file?

- A. to be a system file
- B. to provide an exact, single representation of the dependency tree**
- C. to serve as a module to export dependencies
- D. to be a log for the application

B. to provide an exact, single representation of the dependency tree

223. What response will you get when you send a get requests to the server with this code?

```
const http = require('http');
const hostname = '127.0.0.1';
const port = 3000;
const server = http.createServer((req, res) => {
  res.statusCode = 200;
  res.setHeader('Content-Type', 'text/plain');
  res.end('Hello World\n');
});
server.listen(port, hostname, () => {
  console.log(`Server running at http://${hostname}:${port}/`);
});
```

- A. server running at http://127.0.0.1:3000
- B. server running at port 3000
- C. server running at http://localhost:3000/

L°u ý:
Có 1 câu t°ìng tñ, câu này hñ response, câu kia hñ console log

E. Hello World



D. server running at http://localhost:4000/

E. Hello World

-
224. What is the primary function of the npm command in Node.js development?
- A. To install and manage Node.js versions.
B. To manage packages and dependencies for Node.js projects.
C. To run JavaScript code in the browser.
D. To create and manage databases for Node.js applications.
- B. To manage packages and dependencies for Node.js projects.
-
225. In Node.js, how can you handle asynchronous operations effectively to avoid callback hell?
- A. Use global variables to share data between asynchronous functions.
B. Avoid using asynchronous functions altogether.
C. Use synchronous functions to ensure order of execution.
D. Use Promises, async/await, or libraries like async.js to manage asynchronous operations in a more structured way.
- D. Use Promises, async/await, or libraries like async.js to manage asynchronous operations in a more structured way.
-
226. Which core module in Node.js can be used to create web servers?
- A. fs (File System)
B. http (HTTP Client)
C. url (URL Parsing)
D. http (HTTP Server)
- D. http (HTTP Server)
-
227. What is the purpose of the os module in Node.js?
- A. To work with the file system and perform I/O operations.
B. To create and manage child processes.
C. To provide information about the host operating system, such as CPU, memory, and network interfaces.
- C. To provide information about the host operating system, such as CPU, memory, and network interfaces.



ing system, such as CPU, memory, and network interfaces.

D. To parse and manipulate URLs.

228. How can you serve static files, such as HTML, CSS, and images, in a Node.js web application?

A. Use the url module to serve static files.

B. Embed the static files directly into JavaScript code.

C. Use middleware like `express.static` in combination with the Express.js framework to serve static files.

D. Write custom JavaScript functions to serve each static file individually.

C. Use middleware like `express.static` in combination with the Express.js framework to serve static files.

229. How can you terminate a Node.js application programmatically?

A. Using the `process.terminate()` method

B. Sending a SIGSTOP signal

C. Using the `exit()` method

D. Sending a SIGINT signal (e.g., with `process.kill(process.pid, 'SIGINT')` or calling `process.exit()`)

D. Sending a SIGINT signal (e.g., with `process.kill(process.pid, 'SIGINT')` or calling `process.exit()`)

230. What is the purpose of the `child_process` module in Node.js?

A. To create and manage child processes in a separate thread for parallel execution.

B. To provide access to child elements of JSON data.

C. To handle file I/O operations in a separate thread.

D. To create and manage child processes for running external commands or scripts in a separate process.

D. To create and manage child processes for running external commands or scripts in a separate process.

231.



What is the primary purpose of the cluster module in Node.js?

A. To manage user authentication and authorization.

B. To take advantage of multicore systems by forking multiple Node.js processes and distributing the workload among them.

C. To create clusters of data storage for efficient data handling.

D. To provide clustering for network communication.

B. To take advantage of multicore systems by forking multiple Node.js processes and distributing the workload among them.

232. Which method of the fs module in Node.js is used to check if a file exists asynchronously?

A. fs.existsSync

B. fs.access

C. fs.existsSync

D. fs.stat

B. fs.access

233. Which core module in Node.js is used for network programming and creating network applications?

A. http

B. os

C. fs

D. net

D. net

234. What is the purpose of the util.promisify method in Node.js?

A. To create a new Promise object.

B. To convert a function that returns a Promise into a callback-style function.

C. To convert a callback-style function into a function that returns a Promise.

D. To handle synchronous operations.

C. To convert a callback-style function into a function that returns a Promise.

235.

B. fs



Which Node.js module provides an interface for interacting with the file system, including reading and writing files?

- A. http
- B. fs**
- C. net
- D. os

236. Which of the following is not a NoSQL database? A. SQL Server

- A. SQL Server**
- B. MongoDB
- C. Cassandra
- D. None of the mentioned

237. Point out the correct statement.

D. All of the mentioned

- A. Documents can contain many different key-value pairs, or key-array pairs, or even nested documents
- B. MongoDB has official drivers for a variety of popular programming languages and development environments
- C. When compared to relational databases, NoSQL databases are more scalable and provide superior performance
- D. All of the mentioned**

238. Which of the following is a NoSQL Database Type?

B. Document databases

- A. SQL
- B. Document databases**
- C. JSON
- D. All of the mentioned

239. Which of the following is a wide-column store?

A. Cassandra

- A. Cassandra**



- B. Riak
- C. MongoDB
- D. Redis

240. "Sharding" a database across many server instances can be achieved with _____ B. SAN

- A. LAN
- B. SAN
- C. MAN
- D. All of the mentioned

241. Most NoSQL databases support automatic _____ meaning that you get high availability and disaster recovery. C. replication

- A. processing
- B. scalability
- C. replication
- D. all of the mentioned

242. Which of the following are the simplest NoSQL databases? A. Key-value

- A. Key-value
- B. Wide-column
- C. Document
- D. All of the mentioned

243. _____ stores are used to store information about networks, such as social connections. D. Graph

- A. Key-value
- B. Wide-column
- C. Document
- D. Graph

244. NoSQL databases are used mainly for handling large volumes of _____ data. A. unstructured

- A. unstructured



- B. structured
- C. semi-structured
- D. all of the mentioned

245. Why may developers need to split services into multiple ones in AWS CloudFormation?

B. A single CloudFormation stack can't contain more than a few API endpoints.

A. It's an API security risk to not split the services.

B. A single CloudFormation stack can't contain more than a few API endpoints.

C. Business operations typically require as many services as possible.

D. It's not necessary to split them.

246. Most APIs share a common method for request authentication.

A. True

B. False

247. When you query a collection, MongoDB returns a _____ object that contains the results of the query.

B. cursor

A. row

B. cursor

C. columns

D. none of the mentioned

248. Point out the correct statement.

B. A MongoDB deployment hosts a number of databases.

A. A database is a set of key-value pairs.

B. A MongoDB deployment hosts a number of databases.

C. A document holds a set of collections.

D. All of the mentioned.

249. The _____ method renders the document in a JSON-like format.

C. printjson



- A. displayjson
- B. print
- C. printjson
- D. printdoc

250. Point out the wrong statement.

- A. Documents have static schema in MongoDB.
- B. Eventually-consistent reads can be distributed over replicated servers.
- C. Indexes can include keys from embedded documents and arrays.
- D. None of the mentioned.

A. Documents have static schema in MongoDB.

251. The mongo shell and the drivers provide several cursor methods that call on the cursor returned by the _____ method to modify its behavior.

- A. cursor()
- B. find()
- C. findc()
- D. none of the mentioned

B. find()

252. Which of the following methods corresponds to the "Order by" clause in SQL?

- A. sort()
- B. order()
- C. orderby()
- D. all of the mentioned

A. sort()

253. The _____ method limits the number of documents in the result set.

- A. limit()
- B. limitOf()
- C. limitBy()
- D. none of the mentioned

A. limit()

254.



Which of the following lines skips the first 5 documents in the bios collection and returns all remaining documents? C. db.bios.find().skip(5)

- A. db.bios.find().limit(5)
- B. db.bios.find().skip(1)
- C. db.bios.find().skip(5)
- D. db.bios.find().sort(5)

255. The order of documents returned by a query is not defined unless you specify a C. sort()

- A. sortfind()
- B. sortelse()
- C. sort()
- D. none of the mentioned

256. Point out the correct statement.

- A. Queries specify criteria, or conditions, that identify the documents that MongoDB returns to the clients.
- B. Write operations, or queries, retrieve data stored in the database.
- C. The selection limits the amount of data that MongoDB returns to the client over the network.
- D. All of the mentioned.

A. Queries specify criteria, or conditions, that identify the documents that MongoDB returns to the clients.

257. In aggregation pipeline, the _____ pipeline stage provides access to MongoDB queries.

- A. \$catch
- B. \$match
- C. \$batch
- D. All of the mentioned

B. \$match

258. Point out the wrong statement.

- A. sort() modifier sorts the results by age in ascending order.

C. To scale the amount of data that MongoDB sends to applications,



B. Queries in MongoDB return all fields in all matching documents by default.

include a projection in the queries.

C. To scale the amount of data that MongoDB sends to applications, include a projection in the queries.

D. None of the mentioned.

259. **Which of the following query selects documents in the records collection that match the condition { "user_id": { \$lt: 42 } }?**

B. `db.records.find({ "user_id": { $lt: 42 } }, { "history": 0 })`

A. `db.records.findOne({ "user_id": { $lt: 42 } }, { "history": 0 })`

B. `db.records.find({ "user_id": { $lt: 42 } }, { "history": 0 })`

C. `db.records.findOne({ "user_id": { $lt: 42 } }, { "history": 1 })`

D. `db.records.select({ "user_id": { $lt: 42 } }, { "history": 0 })`

260. **Which of the following functionality is used for aggregation framework?**

B. `$project`

A. `$match`

B. `$project`

C. `$projectmatch`

D. All of the mentioned

261. **To suppress the `_id` field from the result set, specify _____ in the projection document.**

B. `_id: 0`

A. `_id: 1`

B. `_id: 0`

C. `_id: it`

D. None of the mentioned

262. **Which of the following is not a projection operator?**

D. None of the mentioned

A. `$slice`



- B. \$elemMatch
- C. \$
- D. None of the mentioned

263. _____ concern describes the guarantee that MongoDB provides when reporting on the success of a write operation.

A. Write

- A. Write
- B. Read
- C. Update
- D. None of the mentioned

264. Point out the correct statement.

D. All of the mentioned.

- A. Read operations on sharded clusters are most efficient when directed to a specific shard.
- B. Sharded clusters allow you to partition a data set among a cluster of mongod instances in a way that is nearly transparent to the application.
- C. For a sharded cluster, applications issue operations to one of the mongos instances associated with the cluster.
- D. All of the mentioned.

265. When inserts, updates, and deletes have a _____ write concern, write operations return quickly.

B. weak

- A. strong
- B. weak
- C. average
- D. very strong

266. Point out the wrong statement.

A. When a query does not include a shard key, the mongos can use cluster metadata from the config database to route the queries to shards.

- A. When a query does not include a shard key, the mongos can use cluster metadata from the config database to route the queries to shards.
- B. On larger clusters, scatter gather queries are



unfeasible for routine operations.

C. Replica sets use read preferences to determine where and how to route read operations to members of the replica set.

D. None of the mentioned.

database to route the queries to shards.

267. _____ is used to control mongod commits in the journal.

C. commitIntervalMs

A. commitIntervMs

B. commitInterval

C. commitIntervalMs

D. all of the mentioned

268. Clients can set a _____ value as part of a replica acknowledged write concern.

B. wtimeout

A. timeout

B. wtimeout

C. waittimeout

D. none of the mentioned

269. MongoDB does not _____ modifications made before the wtimeout interval expired.

B. rollback

A. commit

B. rollback

C. save

D. all of the mentioned

270. With an _____ write concern, MongoDB does not acknowledge the receipt of write operations.

D. Unacknowledged

A. Nacknowledged

B. Acknowledgement

C. Acknowledged

D. Unacknowledged

271.

A. mongod



With a receipt acknowledged write concern, the _____ confirms that it received the write operation and applied the change to the in-memory view of data.

- A. mongod
- B. mongos
- C. mongo
- D. mongoc

272. Which of the following flag can be set by mongo shell? B. noTimeout

- A. Timeout
- B. noTimeout
- C. Time
- D. None of the mentioned

273. Point out the correct statement.

- A. Intervening read operations on a document may result in a cursor that returns a document more than once if that document has changed.
- B. The MongoDB server returns the query results in batches.
- C. Subsequent batch size is 50 megabytes.
- D. None of the mentioned.

B. The MongoDB server returns the query results in batches.

274. Which of the following will display the complete list of available cursor flags? B. cursor.addOption()

- A. cursor.Option()
- B. cursor.addOption()
- C. cursor.addOptions()
- D. All of the mentioned.

275. To describe the message structure, a _____ like struct is used. C. C

- A. Pascal



- B. C++
- C. C**
- D. Java

276. Point out the wrong statement.

- A. The MongoDB Wire Protocol is a simple socket-based, request-response style protocol.
- B. For queries that include a sort operation without an index, the server must load all the documents in memory to perform the sort before returning any results.**
- C. Clients communicate with the database server through a regular TCP/IP socket.
- D. All of the mentioned.

B. For queries that include a sort operation without an index, the server must load all the documents in memory to perform the sort before returning any results.

277. _____ specifies the number of documents to return in each batch of the response from the MongoDB instance.

- A. cursor.batchSize(size)**
- B. cursor.Size(size)
- C. cursor.batch(size)
- D. All of the mentioned.

A. cursor.batchSize(size)

278. The _____ method returns a document that includes a metrics field.

- A. db.serverStats()
- B. db.serverStatus()**
- C. db.status()
- D. All of the mentioned.

B. db.serverStatus()

279. _____ is a client or database-generated identifier that uniquely identifies this message.

- A. messageLength
- B. responseTo
- C. requestId**
- D. All of the mentioned.

C. requestId



-
280. Which of the following operators is not very selective? B. \$nin
- A. \$nine
B. \$nin
C. \$ain
D. None of the mentioned.
-
281. An index cannot cover a query on a _____ collection when run against a mongos if the index does not contain the shard key. B. sharded
- A. vertical
B. sharded
C. horizontal
D. None of the mentioned.
-
282. What is the name of the group of related data stored in a Mongo database? B. A document
- A. A cell
B. A document
C. A spreadsheet
D. A table
-
283. What is the advantage of using nodejs? D. All the answers are correct
- A. It provides an easy way to build scalable network programs
B. Generally fast
C. Great concurrency
D. All the answers are correct
-
284. What principle does the NodeJS API work on? A. Asynchronous
- A. Asynchronous
B. Synchronous
C. Both of the above
D. All the answers are wrong



285. Which function has the correct syntax to return the number of records stored in a collection? B. db.find().count()

- A. db.find().count
 - B. db.find().count()
 - C. db.find.count()
 - D. db.find.count
-