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Final Assessment

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Question 1

1/1 point (graded)

What are the features and key characteristics of Node? (Choose three that apply)

- ☐ Virtual DOM
- ☒ High performance for I/O operations
- ☐ High performance for CPU operations
- ☒ Non-blocking I/O
- ☒ Built-in core modules for networking



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You have used 1 of 1 attempt

✓ Correct (1/1 point)

Question 2

0/1 point (graded)

What can Node be used for? (Choose two that apply)

- ☐ Front-end apps
- ☐ Web apps with server-side rendering
- ☒ Programs which control drones
- ☒ None of the above
- ☐ All of the above



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You have used 1 of 1 attempt

✖ Incorrect (0/1 point)

Question 3

1/1 point (graded)

What type of servers can Node developers build?

- ☐ Static HTTP servers
- ☐ GraphQL API servers
- ☐ RESTful API servers
- ☐ Networking (non-HTTP) clients and servers

☒ All of the above



☐ None of the above

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You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 4

1/1 point (graded)

What would be a valid Node object? (Choose three that apply)

☒ process

☐ React

☒ global

☒ module

☐ document



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You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 5

0/1 point (graded)

```
/var
  /www
    /api
      server.js
```

Given the structure above, what would be the value of `__dirname` in the `server.js` file?

☐ `/var`☐ `/var/www`☐ `/var/www/api`☒ `/var/www//api`☐ `/var/www/api/server.js`

You have used 1 of 1 attempt

✖ Incorrect (0/1 point)

Question 6

0/1 point (graded)

```
/var
  /www
    /webapp
      /routes
        transactions.js
      app.js
```

Given the structure of an Express app above, what is the correct statement for importing transaction routes in `app.js`, in Node v8. (Choose three of the following choices)?

☒ `const transactions = require('./routes/transactions.js')`☐ `const {transactions} = require('./routes/transactions.js')`☒ `require('./routes/transactions')`☒ `const transactions = require('./routes/transactions.js')`☒ `const transactions = require('./routes/transaction')`

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You have used 1 of 1 attempt

✖ Incorrect (0/1 point)

Question 7

0/1 point (graded)

```
app.get('/transactions/:transactionId', TODO)
```

Given the object above and the `transactions.getTransaction(id, callback)` method, how do you use this route in a `app.get()` ?

- ☐ `app.get('/transactions/:transactionId', transactions.getTransaction(id))`
- ☒ `app.get('/transactions/:id', (req, res, next)=>{transactions.getTransaction(req.params.transactionId, next)})` ✖
- ☐ `app.get('/transactions/:id', (req, res)=>{transactions.getTransaction(req.params.transactionId, next)})`
- ☐ `app.get('/transactions/:transactionId', (req, res, next)=>{transactions.getTransaction(req.params.transactionId, next)})`
- ☐ `app.get('/transactions/:id', (req, res, next)=>{getTransaction(req.params.transactionId, next)})`

Submit

You have used 1 of 1 attempt

✖ Incorrect (0/1 point)

Question 8

0/1 point (graded)

```
app.get('/transactions/:transactionId', TODO)
```

Given the object above and the `transactions.getTransaction(req, res)` method, how do you use this route in a `app.get()` ?

- ☐ `app.get('/transactions/:transactionId', transactions.getTransaction(id))`
- ☐ `app.get('/transactions/:transactionId', transactions.getTransaction)`
- ☒ `app.get('/transactions/:transactionId', (req, res, next)=>{transactions.getTransaction(req.params.id, next)})` ✖
- ☐ `app.get('/transactions/:id', (req, res, next)=>{transactions.getTransaction(req.params.transactionId, next)})`
- ☐ `app.get('/transactions/:id', (req, res, next)=>{getTransaction(req.params.transactionId, next)})`

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You have used 1 of 1 attempt

✖ Incorrect (0/1 point)

Question 9

1/1 point (graded)

What is the default folder name for Express templates which is also the folder create by Express Generator?

☐ templates☐ tpl☒ views☐ view☐ jade

Submit

You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 10

1/1 point (graded)

What is the name of a useful npm module which will allow to work with incoming payload from clients in our Express server?

☐ bodyparser☐ body_parser☒ body-parser☐ incoming-payload☐ express-validator

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You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 11

1/1 point (graded)

There are many types of NoSQL databases. To what type MongoDB belongs?

☐ Key-value stores

☒ Document stores



☐ Columnar stores

☐ Graphs stores

☐ Relational

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You have used 1 of 1 attempt

✓ Correct (1/1 point)

Question 12

1/1 point (graded)

What would be the correct MongoDB REPL/shell command to delete document(s)?

☒ `> db.messages.remove({name:"John"});`



☐ `> db.messages.unmount({name:"John"});`

☐ `> db.messages.removeByName({name:"John"});`

☐ `> db.messages.delete({name:"John"});`

☐ `> db.messages.deleteById({_id:ObjectId('56b2ac41065598d78bd5366f')});`

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Question 13

1/1 point (graded)

```
const mongodb = require('mongodb')
//TODO
MongoClient.connect('mongodb://localhost:27017/edx-course-db', (err, db) => {
  if (err) return process.exit(1)
  console.log('Kudos. Connected successfully to server')
  db.close()
})
```

What code is missing in the script above?

- ☐ `const MongoClient = mongodb`
- ☐ `const MongoClient = mongodb.client`
- ☐ `const MongoClient = mongodb.connect`
- ☐ `const MongoClient = {connect: mongodb.connect}`
- ☒ `const {MongoClient} = mongodb` ✓

Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Question 14

1/1 point (graded)

```
collection.find({tags: /javascript/}).toArray(fn)
```

What would be the right definition of `fn` ?

- ☐ `const fn = {}`
- ☐ `const fn = (documents) => {}`
- ☐ `const fn = (error, documents) -> {}`
- ☒ `function fn(error, documents) {}` ✓
- ☐ `const fn = (documents, error) => {}`

Submit

You have used 1 of 1 attempt


✓ Correct (1/1 point)

Question 15

1/1 point (graded)


```
collection.findOne({_id: '56b2ac41065598d78bd5366f'}, fn)
```

What is wrong with this statement?

- ☐ No error handler
- ☐ More than one documents
- ☐ No `toArray()`
- ☒ 56b2ac41065598d78bd5366f is not ObjectId 
- ☐ All of the above

Submit

You have used 1 of 1 attempt


 Correct (1/1 point)

Question 16

0/1 point (graded)

```
const runMongooseQuery = () => {  
  Book  
  .findOne({ title: /react/i })  
  .populate('author')  
  .exec(function (err, book) {  
    if (err) return console.error(err)  
    console.log(`The book title is ${book.title}`)  
    console.log(`The author is ${book.author.name}`)  
    mongoose.disconnect()  
  })  
}
```

If you are given the Mongoose code above and the knowledge that the code is working to show book and author info, then what's the relationship between Author and Book Mongoose models/schemas?

- ☐ Author has references to books
- ☒ Author has reference to book 
- ☐ Book has reference to Author
- ☐ Book has references to Authors

☐ None of the above

Submit

You have used 1 of 1 attempt

✘ Incorrect (0/1 point)

Question 17

1/1 point (graded)

```
Client
.findOne({ name: /Azat Mardan/i })
.populate('orders')
.exec(function (err, client) {
  if (err) return console.error(err)
  console.log(`The client name is ${client.name}`)
  console.log(`The order count is ${client.orders.length}`)
  mongoose.disconnect()
})
})
```

If you are given the Mongoose code above and the knowledge that the code is working to show client and order(s) info, then what's the relationship between Client and Order Mongoose models/schemas?

☒ Client has references to orders



☐ Clients have references to orders

☐ Client has reference to order

☐ Order has references to Clients

☐ None of the above

Submit

You have used 1 of 1 attempt

✔ Correct (1/1 point)

Question 18

1/1 point (graded)

What is the benefit of Mongoose? (Choose two of the following choices)

☒ Mongoose allows to connect to MongoDB

☐ Mongoose is a lightweight and fast no thrills driver for MongoDB

☒ Mongoose provides rich schema, validation, models, pre/post hooks and methods

☐ Mongoose offers protection against XSS attacks

☐ Mongoose uses 256-bit encryption



Submit

You have used 1 of 1 attempt

✓ Correct (1/1 point)

Question 19

1/1 point (graded)

What statement would be true?

☒ Mongoose `save()` will trigger validation and pre/post hooks

☐ Mongoose `update()` will trigger validation

☐ Mongoose `validate()` will trigger remove

☐ Mongoose `remove()` will trigger validation

☐ Mongoose is front-end library for state management in React apps

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You have used 1 of 1 attempt

✓ Correct (1/1 point)

Question 20

1/1 point (graded)

What are the valid Mongoose methods to connect to MongoDB?(Choose two of the following choices)

☒ `mongoose.connect('mongodb://localhost:27017/edx-course-db', {useMongoClient: true})`

☐ `mongoose.connection('mongodb://localhost:27017/qa')`

☐ `mongoose.connect('mongodb://admin@nosrmpw12039mtr:213.12.30.28/27017/qa')`

☒ `mongoose.connect('mongodb://qa-user:27027@213.12.30.28:1337/qa')`

☐ `mongoose.client('mongodb://prod-user:fYmka02nNf;mn@prod-db.node.university:27017/prod')`

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You have used 1 of 1 attempt

✓ Correct (1/1 point)

Question 21

1/1 point (graded)

What things Node supports (out-of-the-box)? (Choose two that apply)

☒ Support for ES6, ES7 and ES8 in v8+☐ Support for JSX☐ Cross-browser support☒ Cross-platform support☐ Database support

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✓ Correct (1/1 point)

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