4. **HTTP can be described as a….**

    a) language for displaying web pages

    b) a one-way request protocol

    c) a request-response protocol

    d) a one-way response protocol

5. **An HTTP Request can contain:**

    a) a "headers" list of key-value pairs, plus a "body" of text of arbitrary size

    b) response codes

    c) HTML code

    d) Binary data

6. **The command "rails server" will…**

    a) start a local web server on port 3000

    b) deploy a web server to the internet

    c) create a new rails application

    d) migrate the database

7. **A Rails "route"…**

    a) connects controllers and views together

    b) can specify querystring parameters

    c) connects a url path to a Ruby method in your app

    d) creates a controller instance

8. **A Rails controller….**

    a) can contain only one action method

    b) derives from ActiveRecord::Base

    c) is responsible for handling HTTP requests

    d) maintains variable state across requests

9. **A Rails "action"…**

    a) is a Ruby method that is responsible for generating an HTTP response

    b) can reside inside in any class in your app

    c) must have a corresponding view template

    d) must follow a specific naming convention

10. **A Rails "action"…**

    a) can access querystring parameters with the `qrystring[]` hash

    b) can retrieve dynamic route segment values

    c) is expected to modify the `params[]` hash

11. **Which `render` syntax is NOT correct?**

    a) render "<p>Greetings</p>"

    b) render 'greetings'

    c) render :text => "<p>Greetings</p>"

    d) render

12. **A view template….**

    a) can access local variables defined in the corresponding action method

    b) can access instance variables defined in the corresponding action method

    c) can access instance variables defined in any method of the same controller

    d) must be named differently from its corresponding action

13. **Rails "assets" are….**

    a) stylesheets, javascript files, and images

    b) Ruby code that will never change

    c) CSS and images that are hosted by a CDN

    d) static HTML files

14. **Models…**

    a) represent real-world things inside our software

    b) can access the `params[]` hash

    c) cannot be instantiated from controllers

    d) can render views

15. Models...

    e) can contain action methods if the route specifies the model class using the `:controller =>` option in a route

    f) are often database-backed

    g) are responsible for generating HTML code

16. Which Rails feature intentionally embrace the DRY principle?

    a) layouts

    b) routes

    c) controllers

    d) embedded ruby syntax

17. The one primary responsibility of a view is to...

    a) DRY up your code

    b) generate JSON

    c) apply markup to controller-provided data

    d) retrieve data from the database

18. A Rails migration is best defined as...

    a) the schema of the entire database

    b) the schema for one table

    c) SQL instructions for at least one database schema change

    d) a Ruby script that generates DDL instructions for at least one database schema change

19. Routes defined in routes.rb ....

    a) are evaluated using a best-match algorithm upon receiving an http request

    b) are evaluated top-down for the first possible match upon receiving an http request

20. The best way to determine the actual set of routes defined in a Rails application is...

    a) `rake routes`

    b) view the routes.rb file

    c) watching the server log

    d) `rake db:migrate`

    e) `rake about`

21. Controller instances....

    a) are held in memory for the life of the application

    b) are held in memory until the action method returns

    c) are held in memory until an HTTP response has been generated

    d) are created by the routes file

    e) are created by code you must write yourself

22. rails console....

    a) is similar, but different from, irb

    b) is exactly the same as irb

    c) shows the server log

    d) is a simulator for making http requests

23. In the following standalone Ruby script:

```
require 'json'
require 'open-uri'
url = "http://mydomain.com/hello.json"
x = JSON.parse(open(url).read)
```

    What can we say with 100% certainty?

    a) x is an instance of class Array

    b) x is an instance of class Hash

    c) x is an instance of class String

    d) it is not possible to infer the type of x from this code example

    e) neither of the `require` statements are necessary

24. **In order to work properly, a form requires a minimum of…**

    a) two routes and two actions

    b) one layout

    c) two controllers

    d) one route and one action

25. **In Rails, the application layout file…**

    a) must be rendered explicitly

    b) provides HTML markup that needs to be included in every page

    c) provides Ruby code that needs to invoked for every action

    d) is autogenerated by Rails and should not be modified by the developer