Ruby on Rails Assignment One Second Part

1. Which file contains information about database connections? (**single answer**)
2. connectivity.yml
3. db.yml
4. connection.yml
5. database.yml
6. You need to cache various blocks within templates without caching everything as a whole. Which of the following caching approaches should you implement? (**single answer**)
7. Page
8. Fragment
9. Action
10. None of the above
11. Which subdirectory holds the classes that make and wrap the data stored in your application’s database? (**single answer**)
12. Controllers
13. models
14. helpers
15. views
16. Ruby uses a convention to help it distinguish the usage of a name. Which of the following hold true for Ruby naming conventions? (**multiple answers**)
17. Global variables are prefixed with a dollar sign ($)
18. Instance variables are prefixed with @ (at sign)
19. Class variables are prefixed with @@ (two at signs)
20. None of the above
21. The package that contains information about an exception is an object of class exception or is one of class exception’s children. Every exception returns information to understand the nature of the exception. Which of the following are provided by exceptions? (**multiple answers**)
22. Message string
23. Stack Backtrace
24. Code, where the exception occurred
25. Ruby interpreter state
26. The ‘Initialize’ method plays an important role in classes in Ruby. Which of the following is the access control of the ‘initialize’ method? (**single answers**)
27. It is always private
28. It is always public
29. It can be changed according to the situation
30. It is protected
31. What is Mongrel? (**single answer**)
32. A FastCGI adapter
33. A package manager
34. A fast HTTP library and server for Ruby
35. None of the above
36. Which library provides the functionality to send emails? (**single answer**)
37. Net::POPMail
38. Internet::PMTP
39. Net::SMTP
40. Internet::SMTP
41. Which of the following handles a web request from the user? (**single answer**)
42. controllers
43. httphandlers
44. agentcache
45. httprequest
46. Which of the following statements are true regarding processes? (**multiple answers**)
47. When a process terminates, all running threads are killed, regardless of their states
48. You can wait for a particular thread to finish by calling that thread’s Thread#wait method
49. Spawning a child process is exactly the same as spawning a thread
50. You can wait on the child process with Process.wait
51. Which of the following statements are true? (**multiple answers**)
52. A Ruby class can have many parents, Ruby is a multi-inheritance language
53. It is possible to redefine some of a class method outside of that class
54. In Ruby, numeric values are not objects (32, 43.2, 0x324)
55. Class variables are shared among all children classes
56. Which command will verify the existence of RubyGems in your system? (**single answer**)
57. rubygems --ver
58. gem --version
59. rubygem --version
60. gems --ver
61. Which of the following methods will you use to clean up after the testing? (**single answer**)
62. teardown
63. cleartest
64. remove
65. setup
66. If we need to fetch only 10 objects of the table Articles, which one of the following statements is correct? (**single answer**)
67. Article.find :all, :only = > 10
68. Article.find :all, 10
69. Article.find :all, :offset = > 10
70. Article.find :all, :limit = > 10
71. None of the above
72. Read the following statements and select the correct options. (**single answer**)

Statement 1: If you create a template file in the app/views/layouts directory with the same name as a controller, all views rendered by that controller will use that layout by default.

Statement 2: A helper is a module from which methods are automatically included into your views.

1. Statement 1 is true and statement 2 is false
2. Statement 1 is false and statement 2 is true
3. Both the statements are true
4. Both the statements are false
5. Consider the following irb quotes, in one of them = > is not the real irb result.

Which one of the following is it? (**single answer**)

1. irb(main):001:0> 32.5.floor

= > 32

1. irb(main):001:0> Math::PI

= > 3.14159265358979

1. irb(main):001:0> 3\*’e’

= > “eee”

1. irb(main):001:0> 32.5.ceil

= > 33

1. All are correct
2. You have created a controller class without any method. What happens when you browse the controller class? (**single answer**)
3. Nothing will be displayed
4. The exception ‘Routing Error’ occurs
5. The exception ‘Unknown action’ occurs
6. The exception ‘Page not found’ occurs
7. The message ‘No start point’ will be displayed
8. None of the above
9. You need to cache some fragments and have them available to all processes running from the same application directory. Which categories of fragment caching may you use in this scenario? (**multiple answers**)
10. MemoryStore
11. FileStore
12. DRbStore
13. MemCacheStore
14. Which of the following databases are supported by Rails? (**single answer**)
15. DB2
16. MySQL
17. PostgreSQL
18. SQL Server
19. SQLite
20. All of the above
21. Read the following code snippet:

1 class AccountController < ApplicationController

2 def list

3 end

4 end

The programmer has created his own list method but he has not created a custom view. What will be the output when someone calls the list method in the browser? (**single answer**)

1. An exception will occur
2. A list of all records will be displayed
3. The browser will show a blank page
4. Which of the following statements are correct regarding modules in Ruby on Rails? (**multiple answers**)
5. Modules hold a collection of methods and constants
6. Modules hold other modules and class definitions
7. Objects based on modules can be created
8. Modules allow you to share functionality between classes
9. You want to extract part of a template into a variable. Which method of ActionView::Helpers::CaptureHelper should you use? (**single answer**)
10. extract
11. capture
12. content\_for
13. None of the above
14. Which of the following options is used to generate blocks of JavaScript code that allows you to change the content and presentation of multiple DOM elements? (**single answer**)
15. ActionView::Helpers::JavaScript::Generator
16. ActionView::Helpers::JavaScriptGenerator::GeneratorMethods
17. ActionView::Helpers::PrototypeHelper::JavaScriptGenerator::GeneratorMethods
18. Michael has created different models and controllers in his application ‘AirwaysMngmt’. Which of the following testing types should he implement when he needs to test the **controllers**? (**single answer**)
19. Unit tests
20. Functional tests
21. Individual tests
22. None of the above
23. ActiveRecord provides many valuable methods which are used mostly by the controller. Which of the following is not a valid method of the ActiveRecord? (**single answer**)
24. find
25. update\_attributes
26. destroy
27. kill
28. None of the above
29. Consider the following code:

1 class Document < ActiveRecord::Base

2

3 belongs\_to :address

4

5 def recipient

6 if self.address\_id

7 address.details

8 else

9 recipient

10 end

11 end

12 end

What will happen when the recipient is called on a Document object? (**multiple answers**)

1. It will return address.details if address\_id is not nil
2. If address\_id is nil, it will return the value of the “recipient” attribute
3. If address\_id is nil, an exception will occur
4. Nothing will be returned in any case
5. If, in a template, you have the following code:

1 <% cache ‘foo’ do %>

2 …

3 <% end %>

What is the correct statement to expire this cache? (**single answer**)

1. expire :fragment = > ‘foo’
2. expire(‘fragment’, ‘foo’)
3. expire\_fragment ‘foo’
4. None of the above
5. What happens while calling a ‘new’ method of a class in Ruby? (**single answer**)
6. An uninitialized object is created and then it calls initialize to initialize the object
7. An initialized object is created
8. Only memory space is reserved
9. None of the above
10. Observe the following code and point out which line contains an error. (**single answer**)

1

2 require ‘net/http’

3

4 pages = %w( [www.rubycentral.com](http://www.rubycentral.com)

5 [www.awl.com](http://www.awl.com)

6 [www.pragmaticprogrammer.com](http://www.pragmaticprogrammer.com)

7 )

8

9 threads = []

10

11 for page in pages

12 threads << Thread.new(page) { |myPage|

13

14 h = Net::HTTP.open(myPage, 80)

15 puts “Fetching: #{myPage}”

16 resp, data = h.get(‘/’, nil )

17 puts “Got #{myPage}: #{resp.message}”

18 }

19 end

20

21 threads.each { |aThread| aThread.join }

1. 9 threads = []
2. 14 h = Net::HTTP.open(myPage, 80)
3. 21 threads.each { |aThread| aThread.join }
4. Which of the following statements are true regarding ‘DRbStore’ type of fragment caching? (**multiple answers**)
5. This keeps the fragments in the memory of a separate, shared DRb process
6. This works for all environments
7. This keeps separate caches for every process
8. This requires that you run and manage a separate DRb process
9. None of the above
10. You want to measure the execution time of a block in a template and report the result to the log. Which of the following code snippets will perform these actions correctly? (**single answer**)
11. <% benchmark “Notes section” do %>

<%= expensive\_notes\_operation %>

<% end %>

1. <% timer “Notes section” do %>

<%= expensive\_notes\_operation %>

<% end %>

1. <% rollson “Notes section” do %>

<%= expensive\_notes\_operation %>

<% end %>

1. <% watcher “Notes section” do %>

<%= expensive\_notes\_operation %>

<% end %>

1. Ruby’s hash is an indexed collection. It stores a collection of objects. Which of the following can be used as a key to retrieve a value from the hash? (**single answer**)
2. Only integers
3. Only string objects
4. Any type of object
5. An integer or a string object
6. Which of the following statements are true? (**multiple answers**)
7. A Ruby class can have many parents, Ruby is a multi-inheritance language
8. It is possible to redefine some of a class method outside of that class
9. In Ruby, numeric values are not objects (32, 43.2, 0x324)
10. Class variables are shared among all children classes
11. The following statements declare two classes:

1 class Song

2 def initialize(name, artist, duration)

3 @name = name

4 @artist = artist

5 @duration = duration

6 end

7 def to\_s

8 “Song: #{@name}--#{@artist} (#{@duration})”

9 end

10 class VocalSong < Song

11 def initialize(name, artist, duration, lyrics)

12 MyBase.new(name, artist, duration)

13 @lyrics = lyrics

14 end

15 end

In the code given above, which block contains an invalid statement? (**single answer**)

1. initialize of Song
2. to\_s method
3. initialize of VocalSong
4. None of the above
5. You are writing an application where duplicate values are not allowed. Which of the following will you use to check duplicate values in a field? (**single answer**)
6. validates\_duplicatevalue\_of
7. validates\_uniqueness\_of
8. validates\_uniquevalues\_of
9. None of the above
10. Which of the following is used as an entry point in controller classes? (**single answer**)
11. start
12. index
13. open
14. run
15. In which file is the global application configuration kept? (**single answer**)
16. environment.rb
17. config.rb
18. environment.yml
19. config.yml
20. Consider the following code:

class AddressBookController < ApplicationController

def index

fetch\_address #Custom defined method

end

def add

@address=logged\_user.addresses.create

fetch\_addresses

render :update do |page|

page.replace\_html ‘addressDetails’, :partial = > ‘edit’

page.replace\_html ‘addressList’, :partial = > ‘list’

page.replace\_html ‘addressBookButtonBar’, :partial = > ‘buttons’

end

end

end

Which of the following statements are true? (**multiple answers**)

1. render :update will generate RJS code
2. AddressBookController is a model
3. When the RJS generated by the render action is executed by the browser, elements named ‘addressDetails’, ‘addressList’ and ‘addressBookButtonBar’ will be updated with ‘edit’, ‘list’, ‘buttons’ partials respectively
4. Which statement raises an exception correctly? (**multiple answers**)
5. raise
6. raise “bad encoding”
7. raise InterfaceException, “Keyboard failure”, caller
8. None of the above
9. In the following statement, “method” is the method name and “ClassName” is the class name, the rest should be “as is”. How can you define a class method in Ruby? (**multiple answers**)
10. def self.method
11. static def method
12. class def method
13. def ClassName.method
14. Which of the following statements are true regarding threads? (**single answer**)
15. When a process spawns a thread, all global, instance and local variables are shared among threads
16. Ruby threads are totally out-of-process, and are implemented outside the Ruby interpreter
17. Ruby threads are in fact coroutines, thus, everything is thread safe
18. A process can have more than two threads
19. Ruby on Rails closely follows the Model View Controller architecture for writing real-world applications. Which of the following are correct regarding Model View Controller? (**multiple answers**)
20. The model is responsible for maintaining the state of the application
21. The model is responsible for generating a user interface
22. The view is responsible for generating a user interface
23. The view itself handles incoming data
24. None of the above
25. You want to use ‘Action Caching’ for speeding up your application. Which of the following hold true for ‘Action Caching’? (**multiple answers**)
26. Filters are run after the code is served
27. Action Caching uses fragment caching internally
28. Action Caching allows for authentication and other restrictions
29. Unlike Page Caching, action caching cannot be expired
30. The following code snippet creates and sends an email:

#SendMail.rb

require ‘net/http’

user\_from=[sender@hotmail.com](mailto:sender@hotmail.com)

user\_to=[receiver@hotmail.com](mailto:receiver@hotmail.com)

the\_mail=”subject: Hello\n\nEmail by Ruby.”

begin

Net::HTTP.start(‘auth.smtp.paramrocks.com’, 25, ‘paramrocks.com’,

‘sender@hotmail.com’, ‘password’, :login) do |smtpclient|

smtpclient.send\_message(the\_email, user\_from, user\_to)

end

rescue Exception = > e

print “Exception occurred: “ + e

end

Which statements in the given code contain errors? (**multiple answers**)

1. require ‘net/http’
2. Net::Http.start(‘auth.smtp.paramrocks.com’, 25, ‘paramrocks.com’, ‘sender@htomail.com’, ‘password’, :login)
3. smtpclient.send\_message(the\_email, user\_from, user\_to)
4. rescue Exception = > e
5. Which statements hold true for ‘class variable’? (**multiple answers**)
6. A class variable is shared among all objects of a class
7. A class variable is not accessible to the class methods
8. There is only one copy of a particular class variable for a given class
9. Class variable names start with “@” sign, such as “@sign, such as "ames start with "cular class variable for a given classTotalAccounts”
10. There is no such thing as “class variable”