Ruby on Rails Assignment Three Multiple Choice

1. Which of the following statements are correct?
   a. Simple SQL queries can be executed in Rails.
   b. The primary key is always called id.
   c. Rails can work in local, developmental and production environments.
   d. The names of tables should always be singular.

2. Which of the following validations in Rails checks for null fields?
   a. validates_presence_of
   b. validates_length_of
   c. validates_confirmation_of
   d. validates_uniqueness_of

3. Consider the following code snippet:

   ```
   def index
       render
   end
   ```

   The corresponding index.html erb view is as following:

   ```
   <html>
   <head>
   <title>Ruby on Rails sample application | <%=@title%></title>
   </head>
   <body></body>
   </html>
   ```

   Which of the following options is correct?
   a. The application will give an exception as @title variable is not defined in controller
   b. The HTML page will render with the title: Ruby on Rails sample application | <%=@title%>
   c. The HTML page will render with the title: Ruby on Rails sample application|
   d. The HTML page will render with the title: Ruby on Rails sample application

4. Which of the following options in Ruby on Rails MVC architecture handles the dynamic data and the classes with the database?
   a. Models
   b. Controllers
   c. Helpers
   d. Views

5. Consider the following command:

   $ mate public/hello.html

   The command will:
   a. create a static HTML page in the public directory
   b. create a static HTML in the view/layout folder
   c. create a static HTML page in the views directory
   d. give an error as this is an invalid command for the purpose of creating static pages

6. Which of the following controller actions (by default) are best suited to handle the GET HTTP request?
   a. index
   b. show
   c. create
   d. edit
   e. update

7. Which of the following commands will create a new controller named "admin"?
   a. rails generate admin
   b. rails generate generator admin
   c. rails generate controller admin
   d. rails controller admin

8. Which of the following commands will clear out sample users from the development database?
   a. rake db:migrate
   b. rake db:reset
   c. rake db:rollback

9. Which of the following options, when passed as arguments, skips a particular validation?
   a. :validate = > skip
   b. :validate = > off
   c. :validate = > disable
   d. :validate = > false

10. Which of the following validations are supported by models?
    a. Presence validation
    b. Length validation
    c. Format validation
    d. Database uniqueness validation

11. Which of the following commands will test a particular test case, given that the tests are contained in the file test/unit/demo_test.rb, and the particular test case is test_one?
    a. $ ruby -|test test/unit/demo_test.rb –n test_one
    b. $ ruby -|test test/unit/demo_test.rb –a test_one
    c. $ ruby -|test test/unit/demo_test.rb test_one
    d. $ ruby -|test test/unit/demo_test.rb –t test_one

12. Unit tests are used to test which of the following components of Ruby on Rails?
    a. Models
    b. Controllers
    c. Views
    d. Helper classes

13. Which of the following options updates the database with the defined models in a Ruby application?
    a. rake db:migrate
    b. rake db:reset
    c. rake db:rollback
    d. rake db:populate

14. Which of the following statements regarding models in Ruby on Rails is correct?
    a. The page HTML is generated by model
    b. The fetching of data from database is performed by model
    c. The web requests sent by the browser is handled by models
    d. The routing configuration is done by model

15. Which of the following options is correct for x = 10 and y = 5?
    a. x + y = 15
    b. x – y = 5
    c. x % y = 2
    d. x ** y = 250

16. Given below are two statements regarding Rails testing.

    Statement X: Unit tests are used to test models.
    Statement Y: Functional tests are used to test controllers.

    a. Statement X is correct, but statement Y is incorrect
    b. Statement X is incorrect, but statement Y is correct
    c. Both statements X and Y are correct
    d. Both statements X and Y are incorrect

17. In the Rails application, the developmental and production configuration are stored in the:
    a. config/environment folder
    b. public folder
    c. spec folder
    d. task folder

18. Which of the following options is used to insert sample data in a table?
    a. rake db:migrate
    b. rake db:reset
    c. rake db:populate
    d. rake db:rollback

19. Which of the following options are correct with regard to showing an image in the HTML erb template in Rails?
    a. <% =image_tag("logo.png", alt= > "Sample Logo", :class= > "round" %>
    b. <% =image_tag(:src= > "logo.png", alt= > "Sample Logo", :class= > "round" %>
    c. <% =image_tag("logo.png", alt= > "Sample Logo", class= > "round" %>
    d. <% =img_tag("logo.png", alt= > "Sample Logo", class= > "round" %>

20. When interacting with a Rails application, a browser sends a request, which is received by a web server and passed on to a Rails controller. Which of the following options are correct regarding further actions by the controller?
    a. In case of static websites, the controller will immediately render a view
    b. In case of dynamic websites, the controller will first interact with a model, and then render a view
    c. The controller can directly communicate with views to generate and handle dynamic data
    d. The controller can create dynamic HTML using VIEWS

21. What is the output of the following code?

    "test"*5

    a. type casting error
    b. test5
    c. 5
    d. testtesttesttesttest

22. Which of the following methods is used to check whether an object is valid or invalid?
    a. .valid? and .invalid?
    b. Valid() and invalid()
    c. isvalid and isinvalid

23. Which of the following actions is fired by default when a new controller is created?
    a. index
    b. run
    c. show
    d. login

24. Which of the following commands is used to start a Rails application on the console?
    a. rails start
    b. rails server
    c. rails create
    d. rails generate

25. Consider the following code snippet:

    class User < ActiveRecord::Base

    attr_accessible :name, :email

    validates :name, :presence = > true, :length = > {:maximum = > 40}

    end

    Which of the following statements is correct?
    a. The model will validate an empty name
    b. The model will validate names having a maximum length of 40
    c. The model will also validate email
    d. The model will allow empty email values

26. For a Rails application, the page layout is divided into three sections, namely, header, content and footer. Following is the file that contains the layout of the header.

    layouts/header.html.erb

    Which of the following options will correctly include the header template on a particular page?
    a. <% =include 'layout/header' %>
    b. <% =render 'layout/header' %>
    c. <% ='layout/header' %>
    d. <% =renderhtml 'layout/header' %>

27. Which of the following options will find a row from the Users table having id = 1?
    a. Users.find(1)
    b. Users.find :first, :conditions = > ['id = ?', 1]
    c. Users.find_by_id(1)
    d. Users.with_id_1

28. In a Ruby on Rails MVC application, controllers are used:
    a. To handle web requests
    b. To supply the dynamic HTML with data from the database
    c. To render static HTML pages
    d. To handle user validations and authentication

29. Which of the following commands adds the data model info to the model file?
    a. bundle install
    b. generate model
    c. annotate
    d. rails server

30. Which of the following options completes the method definition?
    a. def
    b. end
    c. rescue
    d. self

31. Consider the following information for a User view:

    user_path named route with value "/users/"

    @user = 1

    Now, consider the following code in the HTML erb template:

    <%=link_to user_path(@user), "Angel" %>

    What will be the HTML output of this code?
    a. Angel
    b. /users/1
    c. /users/1
    d. Angel

32. Consider the following Rails URL:

http://localhost:3000/users/1

It gives a routing error when browsed. Which of the following is the correct option to remove this error?

The user's controller's action is named "new".
a. Match '/users', :to = > 'users#new'
b. Match '/users', to = > 'users#new'
c. Match '/users/', :to = > 'users#new'
d. Match '/users', :to = > 'users/new'

33. When a new controller named "admin2" is created, the JS and the CSS files are created in:
a. controllers
b. helpers
c. assets
d. views

34. Which of the following options will create a many to many relation between users and jobs tables?
a. users_jobs
b. users_many_jobs
c. many_users_many_jobs

35. Given below are two statements regarding controllers.

Statement X: Controllers render HTML templates.
Statement Y: Controller named directories are also created in "app/view/layouts" and "helpers" directory.

a. Statement X is correct, but statement Y is incorrect
b. Statement X is incorrect, but statement Y is correct
c. Both statement X and Y are correct
d. Both statement X and Y are incorrect

36. Which of the following git commands is used to see the list of modified files and new files in a Rails application?
a. git branch
b. git commit
c. git status
d. git add

37. Which of the following serves as a structural skeleton for all HTML pages created?
    a. application.html.erb
    b. default.html.erb
    c. index.html.erb
    d. layout.html.erb

38. Which of the following statements is INCORRECT?
    a. Rails does not support ODBC connectivity
    b. Rails can rollback database changes for development mode
    c. Rails can work and connect with multiple databases
    d. Rails database information is stored in database.yml file

39. Consider the following two statements:

    Statement X: Helper classes are used for input data validations.
    Statement Y: Controller classes can also create and return dynamic HTML to the views.

    Which of the following is correct?
    a. Statement X is correct, but statement Y is incorrect
    b. Statement X is incorrect, but statement Y is correct
    c. Both statements X and Y are correct
    d. Both statements X and Y are incorrect

40. Which of the following HTML template languages are supported by Ruby?
    a. Embedded Ruby
    b. Haml
    c. Mustache
    d. Razor

41. Which of the following items are stored in the models subdirectory?
    a. helper classes
    b. database classes
    c. HTML layout templates
    d. Config files

42. In Ruby, "true" is a type of:
    a. Instance variable
    b. Pseudo variable
    c. Class variable
    d. Constant

43. Which of the following is used to commit the changes of your 'master' branch to the 'origin' repository of the application at github?
    a. git push origin master
    b. git push master origin
    c. git commit origin master
    d. git add origin master

44. Which of the following options are correct regarding the method errors[:attribute]?
    a. It returns an array of all the errors for :attribute
    b. It returns an empty array when no errors occur
    c. It is only useful when an error occurs
    d. It also verifies the validity of an object

45. What is Merb?
    a. It is a database adapter for Rails
    b. It is a webserver for Ruby
    c. It is a Ruby gem package manager
    d. It is a default validation helper class

46. Given below are two statements regarding Ruby Programming language.

    Statement X: "redo" restarts an iteration of the most internal loop, without checking loop condition.
    Statement Y: "retry" restarts the invocation of an iterator call. Also, arguments to the iterator are re-evaluated.

    Which of the following options is correct?
    a. Statement X is correct, but statement Y is incorrect
    b. Statement X is incorrect, but statement Y is correct
    c. Both statements X and Y are correct
    d. Both statements X and Y are incorrect

47. Following is a code snippet of UsersController, where the index action has been defined:

    def index
        @users = Users.all
    end

    Which of the following options are correct?
    a. The @users instance variable is available in the index.html.erb view
    b. The code will give error as render is not specified
    c. The @users instance will be printed in the index.html.erb view
    d. The index action will showcase @users data without any layout

48. What is the output of the following code?

    $val = 20
    Print "Sample Text\n" if $val

    a. 20
    b. Sample Text
    c. No output
    d. Syntax error

49. During the deployment of the Rails application through Git, you want certain files to be ignored. Which of the following files performs that operation?
    a. .gitignore
    b. config.ru
    c. Gemfile
    d. Rakefile

50. What is the output of the following code?

    puts "aeiou".sub(/[aeiou]/, '*')

    a. *
    b. *****
    c. *eiou
    d. nil

51. Which of the following are Rails specific assertions to the test/unit framework?
    a. assert_valid
    b. assert_no_difference
    c. assert_recognizes
    d. assert_send

52. Which of the following will return a User object when used with a model which deals with a table named User?
    a. User.new
    b. User.destroy
    c. User.find
    d. User.save

53. In order to enable locking on a table, which of the following columns is added?
    a. lock_version column
    b. identity column
    c. primary key column
    d. lock_optimistic column

54. In your Rails application, you modify the Gemfile in order to make use of sqlite3-ruby gems. Which of the following options will use these gems, as per the new Gemfile?
    a. install bundle Gemfile
    b. bundle install
    c. mate Gemfile
    d. gem bundle install

55. Which of the following validations checks that a passed value is an enumeration and falls in the given range?
    a. validates_associated
    b. validates_inclusion_of
    c. validates_exclusion_of
    d. validates_numericality_of

56. Consider the following code snippet:

    def addusers
        #adding users code goes here
        puts "user created!"
        redirect_to :action = > 'listusers'
    end

    Which of the following options is correct?
    a. The addusers action will redirect to listusers action after the user is added
    b. The addusers action will display the message "user created" and then redirect to listusers action
    c. The code will give compilation error
    d. The code will show a blank page

57. Given below are two statements regarding Rails views.

    Statement X: Conditional statements can be used in erb HTML files
    Statement Y: Indentation and whitespaces does not have an effect in erb HTML files

    Which of the following options is correct?
    a. Statement X is correct, but statement Y is incorrect
    b. Statement X is incorrect, but statement Y is correct
    c. Both statements X and Y are correct
    d. Both statements X and Y are incorrect

58. Which of the following replaced the Prototype JavaScript library in Ruby on Rails as the default JavaScript library?
    a. jQuery
    b. Ajax
    c. Script.aculo.us
    d. ajax-lib

59. Which of the following options will disable the rendering of the view associated with a controller action?
    a. render :layout= > false
    b. render :layout= > nil
    c. render :layout= > disabled
    d. render :layout= > off

60. There is a table Product in a Rails application. The program is required to fetch any 5 rows where the productid is 2. Which of the following is the correct option to perform this action?
    a. Product.find(:productid=>2), :offset= >5
    b. Product.find(:productid=>2), :limit= >5
    c. Product.find(:productid=>2), :only= >5

61. A controller class named 'user' is created. Also a method named 'showuser' is created. But when the URL '/user/showuser' is browse d, an error occurs. What could be the cause of the error?
    a. The route has not been mentioned in the router.config file due to which the error occurs
    b. The default action 'index' was called with data 'showuser', which was not handled
    c. No view is associated with the action 'showuser'.

62. In a Rails application, the development.log file contains:
    a. the routing information of the Rails app
    b. the automatically generated SQL statements
    c. the HTML layout template
    d. the database connections

63. In Rails Views, form_remote_tag will:
    a. create a form, which will be submitted with an XMLHttpRequest
    b. create a form, which will be submitted with a regular HTTP request
    c. create a form, which will be submitted with an AJAX request
    d. give a syntax error as it is an invalid tag

64. Which of the following options will create a new Rails application with default templates?
    a. rails new <application_name>
    b. rails create <application_name>
    c. rails server <application_name>
    d. rails generate <application_name>

65. Consider the following Ruby on Rails command:

    rails generate model User name:string email:string

    Which of the following statements are correct?
    a. The command will give invalid syntax error
    b. The command will only create a model named User, and not the controller and view files
    c. The command will create all controller, model and view files with the name User
    d. The command will create a database table named User

66. What is the output of the following ruby code?

    puts "The multiplication output of 10, 10, 2 is #(10*10*2)"

    a. 200
    b. The multiplication output of 10, 10, 2 is #(10*10*2)
    c. The multiplication output of 10, 10, 2 is 200
    d. The code will give a syntax error

67. Which of the following protects "NOT NULL" fields against missing a user input?
    a. validates_acceptance_of
    b. validates_presence_of
    c. validates_numericality_of
    d. validates_confirmation_of

68. Consider the following Rails URL:

    http://localhost:3000/users/1

    It gives a routing error when browsed. Which of the following is the correct option to remove this error?

    The user's controller's action is named "new".

    a. match '/users', :to => 'users#new'
    b. match '/users', to = > 'users#new'
    c. match '/users/', :to = > 'users#new'
    d. match '/users', :to = > 'users/new'

69. Which of the following types of associations are supported by Active Record?
    a. One to one
    b. One to many
    c. Many to many
    d. Many to one

70. Which of the following options is used to merge the changes from 'master' branch in git, given that the current working branch is 'developer'?
    a. git merge master
    b. git merge developer
    c. git push master
    d. git commit developer

71. In a typical Rails application, files such as images and cascading style sheets (CSS) are stored in the:
    a. app directory
    b. doc directory
    c. public directory
    d. lib directory
    e. config directory

72. Which of the following helpers pass the record to a separate class for validation?
    a. validates_each
    b. validates_with
    c. validates_format
    d. validates_uniqueness

73. Following is a command executed on the Rails console:

    rails console --sandbox

    What does this command do?
    a. It runs the application in restricted mode, where limited features are available
    b. It runs the application such that any modifications are rolled back on application exit
    c. It does not run the application, but displays the application configuration instead

74. Given below are two statements regarding Ruby programming.

Statement X: eql? returns true if the receiver and argument have both the same type and equal values.
Statement Y: .equal? returns true if the receiver and argument have both the same type and equal values.

Which of the following options is correct?
a. Statement X is correct, but statement Y is incorrect
b. Statement Y is incorrect, but statement Y is correct
c. Both statements X and Y are correct
d. Both statements X and Y are incorrect

75. Which of the given options is correct regarding the following line of code?

<%= link_to "About Us", aboutus_path %>

a. It will create a link to a page having the URL "aboutus_path" and the name "About Us"
b. It will create a link to a named route "aboutus_path" with the name "About Us"
c. It will give an error
d. It will generate an empty link HTML with the name "About Us"

76. Which of the following is the file name of the default layout file?
a. default.erb
b. application.html.erb
c. default.html.erb
d. application.erb

77. Which of the following web servers are to be installed as a separate gem and NOT included in the Ruby on Rails installation?
a. WEBrick
b. Lightpd
c. Passenger
d. Mongrel