**THE SUPERIOR COLLEGE LAHORE**

**Bachelors of Science in Computer Science**

**BSCS**

**Final Term Exam (Objective) Semester 6A**

**Faculty: Computer Science and Information Technology**

**Subject: Advance Web Development**

**Instructor: Mr. Zaman Aziz Total marks: 10**

Instructor: Muhammad Hassan Total Marks: 50

**dd**

***Instructions:***

1. Attempt all Questions.
2. Time management is the key of success.
3. No extra time shall be given.

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Time Allowed: 20 Min.**

Q 1 ) What happens when page containing AngularJS based Application loads.

[A ) HTML document is loaded into the browser, and evaluated by the browser.](javascript:void(0);)

[B ) AngularJS JavaScript file is loaded; the angular global object is created.](javascript:void(0);)

[C ) JavaScript which registers controller functions is executed.](javascript:void(0);)

[D ) All of the above.](javascript:void(0);)

Q 2 ) What are scopes in AngularJS?

[A ) Scopes define the accessibility of a javascript variable.](javascript:void(0);)

[B ) Scopes are objects that refer to the model. They act as glue between controller and view.](javascript:void(0);)

[C ) Scopes are objects that refer to the controller.](javascript:void(0);)

[D ) Scopes are objects that refer to the views.](javascript:void(0);)

Q 3 ) What are the controllers in AngularJS?

[A ) Controllers are JavaScript functions that are bound to a particular scope.](javascript:void(0);)

[B ) Controller carry functions to operate on data and decide which view is to be updated to show the updated model based data.](javascript:void(0);)

[C ) They are the prime actors in AngularJS framework.](javascript:void(0);)

[D ) All of the above.](javascript:void(0);)

Q 4 ) What are the services in AngularJS?

[A ) Services are singleton objects which are instantiated only once in app and are used to do the defined task.](javascript:void(0);)

[B ) Services are objects which AngularJS uses internally.](javascript:void(0);)

[C ) Services are not used in AngularJS.](javascript:void(0);)

[D ) Services are server side components of AngularJS.](javascript:void(0);)

Q 5 ) What are the filters in AngularJS?

[A ) Filters select a subset of items from an array and return a new array.](javascript:void(0);)

[B ) Filters are used to show filtered items from a list of items based on defined criteria.](javascript:void(0);)

[C ) Both of the above.](javascript:void(0);)

Q 6) Which of following command starts a REPL session?

[A - $ node](javascript:void(0);)

[B - $ node start](javascript:void(0);)

[C - $ node repl](javascript:void(0);)

[D - $ node console](javascript:void(0);)

Q 7 ) By default, npm installs any dependency in the global mode.

[A - true](javascript:void(0);)

[B - false](javascript:void(0);)

Q 8 ) Which of the following code gets length of a buffer buf?

[A - buf.length](javascript:void(0);)

[B - buf.size](javascript:void(0);)

[C - buf.length()](javascript:void(0);)

[D - buf.size()](javascript:void(0);)

Q 9 ) Which method of fs module is used to write a file?

[A - fs.write(path, flags[, mode], callback)](javascript:void(0);)

[B - fs.writeFile(path, flags[, mode], callback)](javascript:void(0);)

[C - fs.writePath(path, flags[, mode], callback)](javascript:void(0);)

[D - None of the above.](javascript:void(0);)

Q 10 ) Which method of fs module is used to delete a file?

[A - fs.delete(fd, len, callback)](javascript:void(0);)

[B - fs.remove(fd, len, callback)](javascript:void(0);)

[C - fs.unlink(path, callback)](javascript:void(0);)

[D - None of the above.](javascript:void(0);)

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**Final Term Exam (Subjective) Semester 6A**

**Faculty: Computer Science and Information Technology**

**Subject: Advance Web Development**

**Instructor: Mr. Zaman Aziz Total marks: 30**

Instructor: Muhammad Hassan Total Marks: 50

**dd**

***Instructions:***

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Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Time Allowed: 100 Min.**

**CASE STUDY**

Quiz is a very important part of education and content revising. With the help of “Online Quiz Management System”, users would be able to create and conduct quizzes for students. Online quiz management system can be implemented in colleges, universities or at home to check the preparation of students and revise contents of different courses. Manual systems are very time consuming and difficult to grade. Online quiz management system would be able to develop, conduct and check the quizzes thus reducing the burden of academic’s staff and will provide efficient evaluation of students.

# Functional Requirements:

A set of functional requirements of the proposed system may include the following.

* 1. The administrator will be able to add new questions in the quiz**. (through SOAP Services) (5)**
  2. The application will maintain a question bank from where questions will be selected for quiz simultaneously.**(5)**
  3. The administrator will be able to select the start and end date for quiz. **(through Restful services and validation using AngularJs)(5)**
  4. While entering the question the administrator will be able to select the right answer for the question entered**.(5)**
  5. The application will be able to evaluate each question by comparing its correct answer. **(Comparison Code)(5)**