**Final Exam**

**Full Stack Development Bootcamp**

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**Overall Grade: /100**

**HTML (10 pts, 1 pt each)**

1. In html \_\_\_\_\_\_\_ tag defines paragraph.

a) <p> b) <para> c) <table> d) <section>

Ans. a

2. What is Default extension for a HTML document?

(a) .htm (b) .html (c) both a & b (d) none of them

Ans. c

3. HTML tag begins with\_\_\_\_\_\_ symbol.

(a) < (b) > (c) <! (d) !>

Ans. a

4. \_\_\_\_\_\_ creates an ordered list.

(a) <ul> ::: < =ul> (b) <ol> ::: < /ol>

(c) <li> ::: < =li > (d) none of them

Ans. b

5. Scrolling text may be created using\_\_\_\_\_\_ tag in HTML.

(a) <marquee> ::: < /marquee > (b) < span > ::: < =span >

(c) < p > ::: < =p > (d) < font > ::: < =font >

Ans. a

Ans. a

6. Among the following options, \_\_\_\_\_\_ HTML tag merges 3 columns to create a large column.

(a) <tr> ::: < =tr>

(b) <td> ::: < =td >

(c) < td colspan= 3 > ::: < /td >

(d) < td rowspan= 4 > ::: < =td >

Ans. c

7. Elements to be centre aligned in browser display are enclosed inside \_\_\_\_\_\_\_HTML tags.

(a) < p > ::: < =p >

(b) <center> ::: < =center >or < div align = “center" > ::: < /div >

(c) < div align = \left" > ::: < =div >

(d) < div align = \right" > ::: < =div >

Ans. b

8. Elements to be left aligned in browser display are enclosed inside \_\_\_\_\_\_HTML tags.

(a) < div align = \justified" > ::: < =div >

(b) < center > ::: < =center >or < div align =\center" > ::: < =div >

(c) < div align = “left" > ::: < /div >

(d) < div align = \right" > ::: < =div >

Ans. c

9. Width and height value can be specified in \_\_\_\_\_\_\_or in pixels.

(a) metre (b) kilometer (c) percentage (d) inches

Ans. c

10. \_\_\_\_\_\_HTML tag creates a break.

(a) <center> ::: < =center >

(b) <table> ::: < =table >

(c) <img width = \80%" src= \globe:jpg" >

(d) <br>

**CSS (7 pts, 1 pt each)**

1. Which of the following is the correct syntax for referring the external style sheet?

a. <style src = example.css>

b. <style src = "example.css" >

c. <stylesheet> example.css </stylesheet>

d. <link rel="stylesheet" type="text/css" href="example.css"

Ans. d

2. The property in CSS used to change the background color of an element is -

1. bgcolor
2. color
3. background-color
4. All of the above

Ans. c

3. The property in CSS used to change the text color of an element is -

1. bgcolor
2. color
3. background-color
4. All of the above

Ans. b

4. The CSS property used to control the element's font-size is -

1. text-style
2. text-size
3. font-size
4. None of the above

Ans. c

5. Which type of CSS is used in the below code?

**<p** style = "border:2px solid red;"**>**

1. Inline CSS
2. Internal CSS
3. External CSS
4. None of the above

Ans. a

6. The CSS property used to make the rounded borders, or rounded corners around an element is -

1. border-collapse
2. border-radius
3. border-spacing
4. None of the above

Ans. b

7. Which of the following selector in CSS is used to select the elements that do not match the selectors?

1. :! selector
2. :not selector
3. :empty selector
4. None of the above

Ans. b

**JavaScript (10 pts, 1 pt each)**

1.Which of the following keywords is used to define a variable in JavaScript?

1. var
2. let
3. Both A and B
4. None of the above

Ans. c

2. Which of the following methods is used to access HTML elements using JavaScript?

a. getElementbyId()

b. getElementsByClassName()

c. Both A and B

d. None of the above

Ans. c

3. What will be the output of the following code snippet?

<script type="text/javascript">

a = 5 + "9";

document.write(a);

</script>

a. Compilation Error

b.14

c. Runtime Error

d. 59

Ans. d

4. What will be the output of the following code snippet?

<script type="text/javascript" language="javascript">

**var** a = "Scaler";

**var** result = a.substring(2, 4);

document.write(result);

</script>

a. al

b. ale

c. cal

d. caler

Ans. a

5. What will be the output of the following code snippet?

<script type="text/javascript" language="javascript">

var x=12;

var y=8;

var res=eval("x+y");

document.write(res);

</script>

a. 20

b. x+y

c. 128

d. None of the above

Ans. a

6. When the switch statement matches the expression with the given labels, how is the comparison done?

a. Both the datatype and the result of the expression are compared.

b. Only the datatype of the expression is compared.

c. Only the value of the expression is compared.

d. None of the above.

Ans. a

7. What will be the output of the following code snippet?

var a = Math.max() < Math.min();

var b = Math.max() > Math.min();

print(a);

print(b);

a. true false

b. false true

c. true true

d. false false

Ans. a

8. What will be the output of the following code snippet?

var a = true + true + true \* 3;

print(a)

a. 3

b. 0

c. Error

d. 5

Ans. d

9. What will be the output of the following code snippet?

let sum = 0;

const a = [1, 2, 3];

a.forEach(getSum);

print(sum);

function getSum(ele) {

sum += ele;

}

a. 6

b. 1

c. 2

d. None of the above

Ans. a

10. What happens when we run this code?

function dog() {

print("I am a dog.");

}

dog.sound = "Bark";

a. Syntax Error

b. “I am a dog” gets printed

c. ReferenceError

d. Nothing happens

Ans. d

**JQuery (5 pts, 1 pt each)**

1. jQuery is a -
2. JavaScript method
3. JavaScript library
4. JSON library
5. PHP method

Ans. b

1. Which of the following sign is used as a shortcut for jQuery?
2. the % sign
3. the & sign
4. the $ sign
5. the @ sign

Ans. c

1. $(this) in jQuery is used when –
2. an HTML element references the entire document
3. an HTML element references its own action
4. an HTML element references the action of its parent element
5. All of the above

Ans. b

1. Which of the following is the correct code in jQuery to make all div elements 150px high?
2. $("div").height(150);
3. $("div").height = "150" ;
4. $("div").height = 150 ;
5. None of the above

Ans. a

1. The :even and :odd filters in jQuery are used to –
2. determine if the number is odd or even
3. determine if the index position of an element is odd or even
4. both (a) & (b)
5. None of the above

Ans. b

**JSON (6 pts, 1 pt each)**

1. In modern websites what is the common usage for JSON?

a. To store information remotely

b. To send and receive bits of data

c. To store information locally

d. None of the Above

Ans. a

1. Which of these is correct about the JSON standard?
2. It is an open standard
3. It is privately developed
4. It requires a license to use
5. none of the above

Ans. a

1. Which of the following code will throw an error?
2. JSON.parse(‘{}’);
3. JSON.parse(null);
4. JSON.parse(undefined);
5. JSON.parse(‘[]’);

Ans. c

1. What are two main structures composing JSON?
2. Arrays and Objects
3. Keys and values
4. Class and Objects
5. None of above

Ans. b

1. How many types of JSON data?
2. 6
3. 4
4. 7
5. 3

Ans. a

1. What is the return type of the method parseInt()?
2. String
3. Float
4. Integer
5. Date

Ans. c

**XML (6 pts, 1 pt each)**Bottom of Form

1. What does XML stand for?
2. Example Markup Language
3. X-Markup Language
4. eXtra Modern Link
5. eXtensible Markup Language

Ans. d

1. There is a way to describe XML data, how?
2. XML uses XSL to describe data
3. XML uses a description node to describe data
4. XML uses a DTD to describe the data
5. None of the Above

Ans. c

1. Is this a "well formed" XML document?  
   <?xml version="1.0"?>  
   <note>  
   <to>Tove</to>  
   <from>Jani</from>  
   <heading>Reminder</heading>  
   <body>Don't forget me this weekend!</body>  
   </note>
2. Yes
3. No

Ans. a

1. XML preserves white spaces
2. True
3. False

Ans. b

1. Which is not a correct name for an XML element?
2. <Note>
3. All 3 names are incorrect
4. <1dollar>
5. <h1>

Ans. c

1. Which of the following XML fragments is well-formed?
2. <customer id= “3456”><address/><zip code=”3456”/></customer>
3. <customer id=3456><name>John Smith</name></customer>

Ans. b

**AJAX (2 pts, 1 pt each)**

1. Ajax is used for creating \_\_\_\_\_.
2. Web applications
3. Desktop applications
4. System applications
5. Both a and b

Ans. a

1. Which of the following feature makes the Ajax unique?
2. It can work with all the databases
3. It is a server-side application can also be used to create servers
4. It can use Python & C++ for programming
5. It makes data requests asynchronously

Ans. d

**Git and GitHub (4 pts, 1 pt each)**

1. Which of the following git command that downloads your repository from GitHub to your computer?

a.  git fork

b. git commit

c. git clone

d. git push

Ans. c

2. Which of the following shortcut to staging all the changes you have?

a. git push -am "Message"

b. git add.

c. git commit add.

d. git commit.

Ans. b

3. Identify the correct commit syntax for all changes with a message?

a. git add -a "I'm coding"

b. git commit -am "I'm coding"

c. git message -am "I'm coding"

d. None of these

Ans. b

4. Which of the following advantage of using GIT?

a. Collaboration friendly

b. Data redundancy and replication

c. Data redundancy and replication

d. All of the above

Ans. d

**SQL Databases with PostgreSQL (5 pts, 1 pt each)**

1. The SQL ALTER statement can be used to?
2. change the table data
3. change the table structure
4. delete rows from the table
5. add rows to the table

Ans. b

1. With SQL, how do you select a column named "FirstName" from a table named "Persons"?
2. SELECT Persons.FirstName
3. EXTRACT FirstName FROM Persons
4. SELECT FirstName FROM Persons
5. None of these

Ans. c

1. The command to remove rows from a table 'CUSTOMER' is
2. DROP FROM CUSTOMER ..
3. UPDATE FROM CUSTOMER ..
4. REMOVE FROM CUSTOMER ..
5. DELETE FROM CUSTOMER WHERE ..

Ans. d

1. With SQL, how can you return the number of records in the "Persons" table?
2. SELECT COUNT(\*) FROM Persons
3. SELECT LEN(\*) FROM Persons
4. SELECT COLUMNS(\*) FROM Persons
5. SELECT NO(\*) FROM Persons

Ans. a

1. Which of the following query is correct for using comparison operators?
2. SELECT name, course\_name FROM student WHERE age>50 and <80;
3. SELECT name, course\_name FROM student WHERE age>50 and age<80;
4. SELECT name, course\_name FROM student WHERE age>50 and WHERE age<80;
5. None of these

Ans. b

**NoSQL and MongoDB (20 pts, 1 pt each)**

1. Which of the following is not a NoSQL database?

1. Cassandra
2. MongoDB
3. SQL Server
4. None of the above

Ans. c

2. Which of the following is a nosql database type?

1. SQL
2. JSON
3. Document databases
4. None of the Above

Ans. c

3. Which of the following are the simplest NoSQL databases?

1. Key-value
2. Document
3. Wide-column
4. All of the above

Ans. a

4. What is the aim of nosql?

a. NoSQL is not suitable for storing structured data.

b. NoSQL databases allow storing non-structured data.

c. NoSQL is a new data format to store large datasets.

d. NoSQL provides an alternative to SQL databases to store textual data.

Ans. c

5. All nosql databases are similar. true or false.

a. True

b. False

Ans. b

6. What are the types of nosql databases

1. Document databases.
2. Key-value stores
3. Graph & Column-oriented databases.
4. All of the above

Ans. d

7. Which of the following represent column in NoSQL \_\_\_\_\_\_\_\_\_\_.

1. Field
2. Database
3. Collection
4. Document

Ans. a

8. NoSQL databases is used mainly for handling large volumes of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ data.

1. structured
2. unstructured
3. semi-structured
4. None of above

Ans. b

9.Which of the following is true of nosql databases?

1. They do not support very large amounts of sparse data.
2. They do not support distributed database architectures.
3. They are not based on the relational model
4. They are geared toward transaction consistency rather than performance.

Ans. c

10. MongoDB is a NoSQL database?

a. True

b. False

Ans. True

11. How to create a database in mongodb?

1. use databaseName
2. new databaseName
3. create databaseName
4. None of the above

Ans. a

12. Which of the following format is supported by MongoDB ?

1. XML
2. BSON
3. SQL
4. All

Ans. b

13.MongoDB is a \_\_\_\_\_\_\_\_\_ database that provides high performance, high availability, and easy scalability.

1. Graph
2. Key value
3. Document
4. All of the mentioned

Ans. c

14.Which field is always the first field in the document.?

1. \_id
2. Ob\_id
3. id
4. None of these

Ans. a

15. What name is given to Record in MongoDB?

1. Collections
2. Fields
3. Documents
4. Database

Ans. c

16. Which of the following will display details of sName "Sumit"?

1. db.Students.find({sName: "Sumit"})
2. db.Students.find({sName: "Sumit"},{"sName":1, "GPA":1, "\_id":0})
3. db.Students.find({sName: "Sumit"},{"sName":1, "GPA":0})
4. db.Students.find({sName: Sumit})

Ans. a

17. Command display the list of databases.

1. show db
2. show dbs
3. show data
4. display dbs

Ans. b

18. A collection and a document in MongoDB is equivalent to............. concepts respectively.

1. Table and Column
2. Table and Row
3. Column and Row
4. Database and Table

Ans. b

19. \_\_\_\_\_ is the command to create database named "myDB" in MongoDB.

1. use myDB
2. database
3. Both A & B
4. none of the above

Ans. a

20. What is the equivalent command in MongoDB for the following SQL query?SELECT \* FROM posts WHERE author like "%john%"

1. db.posts.find( { author: /john/ } )
2. db.posts.find( { author: {$like: /john/} } )
3. db.posts.find( { $like: {author: /john/} } )
4. db.posts.find( { author: /^john^/ } )

Ans. a

**Node JS and Express JS (5 pts, 1 pt each)**

1. Node JS is
   1. Synchronous
   2. Asynchronous

Ans. b

1. What is the HTML tag under which one can write the JavaScript code?
2. <javascript>
3. <scripted>
4. <script>
5. <js>

Ans. c

1. Node.js is...
2. modular platform, meaning that much of the functionality is being built in to the platform
3. modular platform, meaning that much of the functionality is provided by external modules
4. modular platform, meaning that much of the functionality does not work without angular
5. modular what? I'm sorry, I wasn't paying attention

Ans. b

1. NodeJs is \_\_\_\_\_\_\_\_\_\_\_ Language.
2. Server Side
3. Client Side
4. Both
5. None of the above

Ans. a

1. What is the advantage of using node.js?
2. Great concurrency
3. Generally fast
4. It provides an easy way to build scalable network programs
5. All of these

Ans. d

**React JS (20 pts, 1 pt each)**

1. In React what is used to pass data to a component from outside?

1. setState
2. render with arguments
3. props
4. PropTypes

Ans. c

2. In which directory React Components are saved?

1. Inside js/components/
2. Inside vendor/components/
3. Inside external/components/
4. Inside vendor/

Ans. a

3.How many elements does a react component return?

1. 2 Elements
2. 1 Element
3. Multiple Elements
4. None of These

Ans. a

4. How do you write an inline style specifying the font-size:12px and color:red; in JSX

1. style={{font-size:12,color:'red'}}
2. style={{fontSize:'12px',color:'red'}}
3. style={fontSize:'12px',color:'red'}
4. style={{font-size:12px,color:'red'}}

Ans. c

5. What is a good use case for using a function while rendering a dynamic list of items

1. If we need to compute a value based on properties of items in the loop.
2. None. Functions should not be used while rendering a dynamic list.
3. To make the code shorter
4. None of the above

Ans. a

6. Which of the following is correct syntax for a button click event handler, foo?

1. <button onclick=this.foo()>
2. <button onclick=this.foo>
3. <button onClick={this.foo()}>
4. <button onClick={foo}>

Ans. c

7. Which of the following API is a MUST for every ReactJS component?

1. getInitialState
2. render
3. renderComponent
4. None of the above

Ans. b

8. What happens when the following render() method executes?<br /><br /> render(){<br /> let langs = ["Ruby","ES6","Scala"]<br /> return (<div><br /> {langs.map(it => <p>{it}</p>)}<br /> </div>)<br /> }<br />

1. Displays the list of languages in the array
2. Error. Cannot use direct JavaScript code in JSX
3. Displays nothing
4. Error. Should be replaced with a for..loop for correct output

Ans. a

9. What are the two ways that data gets handled in React?

1. state & props
2. services & components

Ans. a

10. Everything in react is

1. Package
2. Model
3. Method
4. Component

Ans. d

11. What is JSX?

1. it is a syntax extension to JavaScript.
2. JSX produces data.
3. Tool to control the data
4. none of the above

Ans. b

12. When it is recommended to pass this.setState as a function instead of an object?

1. When the new state should completely replace the old state
2. When the new state depends on the old state
3. When the new state does not depend on the old state
4. None of the above

Ans. b

13. Which of the following below act as the input of a class-based component?

1. class and factory
2. render and mount
3. props
4. none of the above

Ans. a

14. What is state in React?

1. A persistant storage.
2. An internal data store (object) of a component.

Ans. b

15. Life cycle methods of a components fall under following categories?

1. Mounting, Unmounting
2. Mounting, Updating
3. Mounting, Updating, Unmounting
4. All of above

Ans. c

16. One can define default values for properties, props, using which of the following method?

1. getDefaultProps
2. getPropsValue
3. getInitialState
4. None of these

Ans. a

17. React.js Covers only the view layer of the app.

a. True

b. False

Ans. a

18. Variabel default React JS

1. Props
2. Statefull
3. Stateless
4. State

Ans. d

19. There are two types of components in React JS

1. UseState, Stateless
2. Statefull, Stateless
3. Unstatefull Statefull
4. None of these

Ans. c

20. React is for building \_\_\_\_\_\_\_\_\_

1. Connectivity
2. User Interface
3. Database
4. All of above

Ans. d