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**End-Term Examination, Odd Semester 2022-23**

**B.Tech. CSE, I: Year, I : Semester I**

**BCSG-0080: Introduction to Web 2 and Blockchain.**

**Time: 1.5-hour Maximum Marks: 50**

**SECTION A**

***Note: Attempt All Questions.* 30 x 1 =30 Marks**

1. How do you create a string in JavaScript?

A) By enclosing a set of characters in curly braces {}

B) By enclosing a set of characters in square brackets []

C) By enclosing a set of characters in single or double quotes '' or ""

D) By enclosing a set of characters in parentheses ()

2. How do you access a specific character in a string in JavaScript?

A) By using the length property and the index of the character

B) By using the indexOf() method and the index of the character

C) By using square brackets and the index of the character

D) By using the charAt() method and the index of the character

3. How do you concatenate two strings in JavaScript?

A) By using the + operator

B) By using the concat() method

C) By using the join() method

D) By using the append() method

4. How do you find the length of a string in JavaScript?

A) By using the length() method

B) By using the size() method

C) By using the count() method

D) By using the length property

5. How do you convert a string to lowercase in JavaScript?

A) By using the toLower() method

B) By using the toLowerCase() method

C) By using the lower() method

D) By using the lowerCase() method

6.   \_\_\_\_\_\_\_ extracts a part of a string and returns the extracted part in a new string.

A. substring()

B. substr()

C. strlen()

D. slice()

7. JavaScript counts positions from?

A. 0

B. 1

C. -1

D. Can not say

8. \_\_\_\_\_\_\_\_\_ cannot accept negative indexes.

A. slice()

B. substring()

C. both a and b

D. none of the above

9. Some browsers do not allow spaces behind the  character.

A. Yes

B. No

C. Can be yes or no

D. Can not say

10. An \_\_\_\_\_\_\_ is a special variable, which can hold more than one value

A. string

B. integer

C. character

D. array

11. It is a common practice to declare arrays with the \_\_\_\_\_\_\_\_\_ keyword.

A. var

B. let

C. const

D. none of the above

12. Spaces and line breaks are not important.

A. TRUE

B. FALSE

C. Can be true or false

D. Can not say

13. Array indexes start with \_\_\_\_\_\_.

A. -1

B. 0

C. 1

D. Can not say

14.  The \_\_\_\_\_\_\_\_ operator in JavaScript returns "object" for arrays.

A. and

B. or

C. not

D. typeof

15. What is true about Arrays?

A. JavaScript does not support associative arrays

B. You should use objects when you want the element names to be strings

C. You should use arrays when you want the element names to be numbers

D. All of the above

16. The easiest way to add a new element to an array is using the \_\_\_\_\_\_\_\_\_ method

A. add()

B. insert()

C. push()

D. set()

17. The \_\_\_\_\_\_\_ method also joins all array elements into a string.

A. toString()

B. join()

C. pop()

D. shift()

18. Array elements can be deleted using the JavaScript operator?

A. pop

B. shift

C. delete

D. All of the above

19. Arrays always use numbered indexes.

A. Yes

B. No

C. Can be yes or no

D. Can not say

20. A programming language can be called object-oriented if it provides \_\_\_\_\_\_\_\_ basic capabilities to developers

A. 1

B. 2

C. 3

D. 4

21. The capability to store one object inside another object known as?

A. Encapsulation

B. Aggregation

C. Inheritance

D. Polymorphism

22. The syntax for adding a property to an object is?

A. objectProperty == propertyValue;

B. objectProperty = propertyValue;

C. objectName.objectProperty = propertyValue;

D. objectName.objectProperty == propertyValue;

23. The \_\_\_\_\_\_\_\_ operator is used to create an instance of an object.

A. this

B. self

C. find

D. new

24. JavaScript provides a special constructor function called Object() to build the object.

A. TRUE

B. FALSE

C. Can be true or false

D. Can not say

25 \_\_\_\_\_\_ serializes only the enumerable own properties of an object.

A. JSON.Parse()

B. JSON.Stringify()

C. JSON.Null()

D. JSON.Objectify()

26. What will be the output of below code?

NOTE: The code is executed on 2019-5-9

var todaysDate = new Date()

console.log( todaysDate.toLocaleString() );

A. 2019-05-09T09:29:53.181Z

B. 2019-5-9

C. 15:00:34

D. 2019-5-9 15:02:35

27. Object ......... is the process of converting an objects state to a string from which it can later be restored.

A. prototype

B. class

C. serialization

D. extensible

28. If para1 is the DOM object for a paragraph, what is the correct syntax to change the text within the paragraph?

A. "New Text"?

B. para1.value="New Text";

C. para1.firstChild.nodeValue= "New Text";

D. para1.nodeValue="New Text";

29 What will be the output of below code?

const event = new Date(Date.UTC(2012, 11, 20, 3, 0, 0));

console.log (event.toLocaleString('en-IN', { timeZone: 'UTC' }));

A. 20/12/2012, 3:00:00

B. 12/20/2012, 3:00:00

C. 20/12/2012, 3:00:00 am

D. 2012/12/20, 3:00:00 am

30. What will be the output of below code?

var val = "JavaScript String"

splittedVal = val.split('a',2)

console.log(splittedVal);

A. [ 'J', 'v' ]

B. [ 'J' ,'v','Script']

C. [ 'J', 'v', 'Script String' ]

D. [ 'JavaScript String' ]

**SECTION B**

***Note: Attempt All Questions.* 40 x 0.5 =20 Marks**

31. The web development environment (JavaScript) offers which standard construct for data validation of the input entered by the user.

A) Controlled loop constructs

B) Server page access

C) Client side Event

D) Permit server-side

32.  The script tag must be placed in \_\_\_\_\_\_\_\_\_\_

a) the head tag

b) the head or body

c) the title or head

d) after the body tag

33. A JavaScript program developed on a Unix Machine \_\_\_\_\_\_\_\_

a) will throw errors and exceptions

b) must be restricted to a Unix Machine only

c) will work perfectly well on a Windows Machine

d) will be displayed as a JavaScript text on the browser

34 JavaScript is ideal to \_\_\_\_\_\_\_\_

a) make computations in HTML simpler

b) minimize storage requirements on the web server

c) increase the download time for the client

d) increase the loading time of the website

35. Which of the following Attribute is used to include External JS code inside your HTML Document?

a) src

b) ext

c) script

d) link

36. What will be the output of the following JavaScript code?



a) 0

b) 1

c) 2

d) 5

37. A proper scripting language is a \_\_\_\_\_\_\_\_\_\_

a) High level programming language

b) Assembly level programming language

c) Machine level programming language

d) Low level programming language

38) The type of a variable that is volatile is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a) Volatile variable

b) Mutable variable

c) Immutable variable

d) Dynamic variable

39. A hexadecimal literal begins with \_\_\_\_\_\_\_\_\_\_

a) 00

b) 0x

c) 0X

d) Both 0x and 0X

40. JavaScript \_\_\_\_\_\_\_\_\_ when there is an indefinite or an infinite value during an arithmetic computation.

a) Prints an exception error

b) Prints an overflow error

c) Displays “Infinity”

d) Prints the value as such

41. Which of the following is not considered as an error in JavaScript?

a) Syntax error

b) Missing of semicolons

c) Division by zero

d) Missing of Bracket

42. The escape sequence ‘\f’ stands for \_\_\_\_\_\_\_\_\_

a) Floating numbers

b) Representation of functions that returns a value

c) \f is not present in JavaScript

d) Form feed

43. The snippet that has to be used to check if “a” is not equal to “null” is \_\_\_\_\_\_\_\_\_

a) if(a!=null)

b) if (!a)

c) if(a!null)

d) if(a!==null)

44. The statement a===b refers to \_\_\_\_\_\_\_\_\_

a) Both a and b are equal in value, type and reference address

b) Both a and b are equal in value

c) Both a and b are equal in value and type

d) There is no such statement.

45. Is Bootstrap3 mobile-first?

1. True
2. False
3. Can't say
4. May be

46. Which of the following class in Bootstrap is used to provide a responsive fixed width container?

1. .container-fixed
2. .container-fluid
3. .container
4. All of the above

47. How many columns are allowed in a bootstrap grid system?

1. 2
2. 12
3. 3
4. 5

48. The correct syntax of creating a standard navigation bar is -

1. <nav class="navigationbar navbar">
2. <nav class="navbar navbar-default">
3. <nav class="nav navbar">
4. <nav class="navbar default">

49. Which of the following is the correct syntax of creating a standard navigation tab?

1. <ul class="navigation nav-tabs">
2. <ul class="nav tab">
3. <ul class="nav nav-tabs">
4. <ul class="navigation tabs">

50. Which of the following class is used to create a black navigation bar?

1. .navbar-default
2. .navbar-inverse
3. .navbar-black
4. .navbar-dark

51. The plugin used to create a cycle through elements as a slideshow is -

1. slideshow
2. scrollspy
3. carousel
4. None of the above

52. Which of the following class in Bootstrap is used to create a dropdown menu?

1. .dropdown
2. .select
3. .select-list
4. None of the above

53. Which of the following class in Bootstrap is used to create a basic list group?

1. .grouped-list
2. .select-list
3. .list-group
4. .list-grouped

54. The class used to shape an image to a circle is -

1. .img-rounded
2. .img-circle
3. .img-rounded
4. None of the above

55.  Which of the following class in Bootstrap is used to create a large button?

1. .btn-xl
2. .btn-lrg
3. .btn-large
4. .btn-lg

56. Which of the following plugin in Bootstrap is used to create a modal window?

1. popup
2. alert
3. modal
4. window

57. Which of the following class in Bootstrap is used to create basic pagination?

1. .page
2. .pagin
3. .paginate
4. .pagination

58. Which of the following class in Bootstrap is used to create a badge?

1. .tag
2. .badge
3. .page
4. .flag

59. The class in Bootstrap used to provide rounded corners to the image is -

1. .img-circle
2. .image-circle
3. .image-rounded
4. .img-rounded

60. The class in Bootstrap which is used to specify the collapsible elements is -

1. .collapse
2. .carousel
3. .pager
4. None of the above

61. Which of the following is the correct name of React.js?

1. React
2. React.js
3. ReactJS
4. All of the above

62.  Which of the following is not a disadvantage of React.js?

1. React.js has only a view layer. We have put your code for Ajax requests, events and so on.
2. The library of React.js is pretty large.
3. The JSX in React.js makes code easy to read and write.
4. The learning curve can be steep in React.js.

63. Which of the following command is used to install create-react-app?

1. npm install -g create-react-app
2. npm install create-react-app
3. npm install -f create-react-app
4. install -g create-react-app

64. What of the following is used in React.js to increase performance?

1. Original DOM
2. Virtual DOM
3. Both A and B.
4. None of the above.

65. A class is a type of function, but instead of using the keyword function to initiate it, which keyword do we use?

1. Constructor
2. Class
3. Object
4. DataObject

66.  What is the default port where webpack-server runs?

1. 3000
2. 8080
3. 3030
4. 6060

67. How many numbers of elements a valid react component can return?

1. 1
2. 2
3. 4
4. 5

68. How many ways of defining your variables in ES6?

1. 1
2. 3
3. 4
4. 5

69. What are the two ways to handle data in React?

1. State & Props
2. Services & Components
3. State & Services
4. State & Component

70. What does ES6 stand for?

1. ECMAScript 6
2. ECMA 6
3. ECMAJavaScript 6
4. EJavaScript 6