Web design and Development
(Easy)

1. How will this HTML5 code be displayed?
   <header><h1>Welcome to India. Athithi Devo Bhava.</h1></header>

   A. As a paragraph

   B. As a footer

   C. As a navigation bar

   D. As a header with large bold text

   ANSWER: D

2. In HTML5, which element is best suited for content that is tangentially related to the main content, like a sidebar?

   A. <footer>

   B. <article>

   C. <aside>

   D. <header>

   ANSWER: C

3. What is the difference between IPv4 and IPv6?

   A. Option A

   B. Option B

   C. Option C

   D. Option D

   ANSWER: D

4. In the following Query, which of the following can be placed in the Query's blank portion to display the salary from highest to lowest amount, and sorting the employs name alphabetically?

   SELECT * FROM instructor

   ORDER BY salary ____, name ___;

   A. All of the below

   B. Desc, Asc

   C. Asc, Desc

   D. Ascending, Descending

   ANSWER: B

5. What is the purpose of the <figure> and <figcaption> elements in HTML5?

   A. To define self-contained content with a caption

   B. To create a navigation bar

   C. To display a figure in a scientific paper

   D. To create a photo gallery

   ANSWER: A

6. Spot the error in this HTML5 audio tag:

   <audio controls><source src="audio.mp3" type="audio/mpeg"><source src="audio.ogg" type="audio/ogg"></audio>

   A. Incorrect MIME type for the .ogg file

   B. No error

   C. The controls attribute should be inside the <source> tag

   D. Missing src attribute in the <audio> tag

   ANSWER: B

7. The default character encoding in HTML5 is_____.

   A. UTF-16

   B. ISO-8859-1

   C. UTF-32

   D. UTF-8

   ANSWER: D

8. Which of the following is generally used for performing tasks like creating the structure of the relations, deleting relation?

   A. Relational Schema

   B. DML(Data Manipulation Language)

   C. Query

   D. DDL(Data Definition Language)

   ANSWER: D

9. Which CSS property is used to change the text color of an element?

   A. font-color

   B. text-color

   C. background-color

   D. color

ANSWER: D

10. What is the primary purpose of CSS in web development?

   A. To store data

   B. To program web applications

   C. To style web pages

   D. To create web pages

ANSWER: C

11. Which of the following is a valid way to integrate CSS into a webpage?

   A. Internal

   B. Inline

   C. External

   D. All of the above

ANSWER: D

12. Given the following CSS, what color will the <h1> text be?

body { color: red; } h1 { color: blue; }

   A. Black

   B. Red

   C. Green

   D. Blue

ANSWER: D

13. Which of the following is a correct syntax to display "Hello World" in an alert box using JavaScript?

   A. alertBox('Hello World');

   B. displayAlert('Hello World');

   C. msgAlert('Hello World');

   D. alert('Hello World');

ANSWER: D

14. Which of the following is a valid variable name in JavaScript?

   A. $name

   B. 2names

   C. -name

   D. name2

ANSWER: A

15. What does the undefined value in JavaScript represent?

   A. A null value

   B. An unassigned variable

   C. A logical false

   D. An error condition

ANSWER: B

16. Which data type in JavaScript is used to represent logical values?

   A. String

   B. Boolean

   C. Undefined

   D. Number

ANSWER: B

17. What will be the output of the following code?

console.log(typeof null);

   A. 'null'

   B. 'object'

   C. 'undefined'

   D. 'number'

ANSWER: B

18. What is the purpose of JavaScript in web development?

    A. To structure web pages

    B. To style web pages

    C. To add interactivity and dynamic content to web pages

    D. To store data on the server

ANSWER: C

19. The given Query can also be replaced with_____:

    SELECT name, course_id

    FROM instructor, teaches

    WHERE instructor_ID= teaches_ID;

    A. Select course_id from instructor join teaches;

    B. Select name, course_id from instructor natural join teaches;

    C. Select name, course_id from instructor;

    D. Select name, course_id from teaches,instructor where instructor_id=course_id;

ANSWER: B

20. What do you mean by one to many relationships?

    A. One class may have many teachers

    B. One teacher can have many classes

    C. Many teachers may have many classes

    D. Many classes may have many teachers

ANSWER: B

21. Which of the following provides the ability to query information from the database and insert tuples into, delete tuples from, and modify tuples in the database?

    A. DML(Data Manipulation Language)

    B. Query

    C. Relational Schema

    D. DDL(Data Definition Language)

ANSWER: A

22. Which one of the following given statements possibly contains the error?

    A. select empid from emp where empid = 10006;

    B. select empid from emp;

    C. select empid where empid = 1009 and Lastname = 'GELLER';

    D. select * from emp where empid = 10003;

ANSWER: C

23. Ready the Query carefully:

    SELECT emp_name FROM department

    WHERE dept_name LIKE ' _____ Computer Science';

    In the above-given Query, which of the following can be placed in the Query's blank portion to select the "dept_name" that also contains Computer Science as its ending string?

    A. _

    B. &

    C. $

    D. %

ANSWER: D

24. How many phases are there in SDLC?

    A. 5

    B. 6

    C. 7

    D. 8

ANSWER: C

25. Which model can be selected if user is involved in all the phases of SDLC?

    A. Prototyping Model

    B. both b & c

    C. Waterfall Model

    D. RAD Model

ANSWER: B

26. What is the major drawback of using RAD Model?

    A. Highly specialized & skilled developers/designers are required.

    B. Both a & c.

    C. Increases re-usability of components.

    D. Encourages customer/client feedback.

ANSWER: A

27. The architectural model is derived from which of these sources?

    A) Information about the application domain for the software to be built;

    B) Specific requirements model elements such as data flow diagrams or analysis classes, their relationships and collaborations for the problem at hand;

    C) The availability of architectural styles and patterns.

    A. Both A & C

    B. All mentioned above

    C. Both B & C

    D. Both A & B

ANSWER: B

28. What is the major advantage of using Incremental Model?

    A. Both B & C

    B. It is used when there is a need to get a product to the market early

    C. Customer can respond to each increment

    D. Easier to test and debug

ANSWER: A

29. The spiral model was originally proposed by whom?

    A. IBM

    B. Barry Boehm

    C. Pressman

    D. Royce

ANSWER: B

30. RAD Model has

    A. 5 phases

    B. 10 phases

    C. 3 phases

    D. 7 phases

ANSWER: A

31. Which of the following makes up the requirement analysis?

    A. Both (A) and (B)

    B. Customer inputs

    C. Surveys of sales departments or markets

    D. None of the above

ANSWER: A

32. Which of the following is a model of SDLC?

    A. Both (A) and (B)

    B. None of the above

    C. Agile methodology

    D. Waterfall

ANSWER: A

33. How many SDLC models are there?

    A. 2

    B. 5

    C. 3

    D. 4

ANSWER: D

34. SDLC stands for

    A. Software Design Life Cycle

    B. Software Development Life Cycle

    C. System Development Life Cycle

    D. System Design Life Cycle

ANSWER: B

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

  A. .select-list

  B. .dropdown

  C. .select

  D. None of the above

ANSWER: B

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

  A. 3

  B. 2

  C. 12

  D. 5

ANSWER: C

37. Is Bootstrap3 mobile-first?

  A. May be

  B. Can't say

  C. True

  D. False

ANSWER: C

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

  A. .navbar-inverse

  B. .navbar-black

  C. .navbar-dark

  D. .navbar-default

ANSWER: A

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

  A. .container

  B. .container-fixed

  C. .container-fluid

  D. All of the above

ANSWER: A

40. Which of the following class in bootstrap is used to create a big box for calling extra attention?

  A. .box

  B. .container

  C. .jumbotron

  D. .container-fluid

ANSWER: C

41. What does the 'text-' prefix in Bootstrap's utility classes generally modify?

  A. Font size

  B. Text alignment

  C. Font style

  D. Text decoration

ANSWER: B

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

  A. scrollspy

  B. None of the above

  C. slideshow

  D. carousel

ANSWER: D

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

  A. <nav class="nav navbar">

  B. <nav class="navbar default">

  C. <nav class="navbar navbar-default">

  D. <nav class="navigationbar navbar">

ANSWER: C

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

  A. <ul class="nav nav-tabs">

  B. <ul class="navigation tabs">

  C. <ul class="nav tab">

  D. <ul class="navigation nav-tabs">

ANSWER: A

45. Adding a border to your image helps the visitor to recognize it as what?

   A. A frame

   B. A link

   C. None of the above

   D. A picture

ANSWER: B

46. In HTML, how are all tags enclosed?

   A. # and #

   B. < and >

   C. ? and !

   D. { and }

ANSWER: B

47. What will this HTML5 code display as a result? <video src="movie.mp4" width="320" height="240"></video>

   A. A static image from "movie.mp4"

   B. A broken video link

   C. An audio player playing "movie.mp4"

   D. A video player with a video from "movie.mp4"

ANSWER: D

48. Which of the following should be used to add a plain color background to your web page?

   A. <body bgcolor= "#FF000">

   B. <body color= "#FF000">

   C. <body color= ##FF000>

   D. <body bgcolor= "36,24,35">

ANSWER: A

49. What is the first tag that must be placed inside the <TABLE> tag?

   A. <HEAD>

   B. <TD>

   C. <CAPTION>

   D. <TR>

ANSWER: D

50. How will this HTML5 code be displayed in the output? <audio src="sound.mp3" controls></audio>

   A. A static image with a sound icon

   B. Text with a link to "sound.mp3"

   C. An audio player for "sound.mp3" with controls

   D. A video player playing "sound.mp3"

ANSWER: C

51. What effect does the <br> tag have on your webpage?

   A. Boldens the text

   B. Adds a horizontal line

   C. Breaks the line and adds space

   D. Changes the text color

ANSWER: C

52. Why is the DOCTYPE declaration important in HTML?

   A. It enables JavaScript in HTML

   B. It links HTML with CSS

   C. It defines the HTML version being used

   D. It is required for creating HTML forms

ANSWER: C

53. Identify the mistake in this HTML5 video tag: <video src="movie.mp4" controls autoplay></video>

   A. No error

   B. Incorrect file path in src

   C. Autoplay should not be used with controls

   D. Missing width and height attributes

ANSWER: A

54. Which tag will you add to specify a font for your whole page?

   A. <font>

   B. <defaultfont>

   C. <targetfont>

   D. <basefont>

ANSWER: B

55. The tag which allows you to nest other HTML tags within the description

A. <TR>

B. <TD>

C. <CAPTION>

D. None of the above

ANSWER: C

56. In HTML, tags that include both on and off tag are called

A. Container tag

B. Document tag

C. None of the above

D. Comment tag

ANSWER: A

57. What does the universal selector (*) do in CSS?

A. Targets no elements

B. Targets all elements in a document

C. Targets elements with a specific id

D. Targets the body element

ANSWER: B

58. Which property is used to set the background color of an element?

A. color

B. bgcolor

C. background

D. background-color

ANSWER: D

59. What is the correct syntax to select all <p> elements inside <div> elements?

A. div > p

B. div p

C. p > div

D. div + p

ANSWER: B

60. How do you select elements with the class name "example"?

A. #example

B. *example

C. .example

D. example

ANSWER: C

61. Which selector is used to target an element based on its id?

A. *id

B. id

C. .id

D. #id

ANSWER: D

62. Why might the CSS rule .container p { color: green; } not apply to a paragraph inside a div with class "container"?

A. The paragraph is not a direct child

B. There is a more specific rule overriding this one

C. The CSS file is not linked properly

D. The div does not have the "container" class

ANSWER: B

63. What components make up the CSS Box Model?

A. Padding, Margin, Border, Shadow

B. Content, Margin, Border, Outline

C. Content, Padding, Border, Margin

D. Content, Padding, Shadow, Margin

ANSWER: C

64. What will be the font size of <p class="text">Hello World!</p> with the CSS .text { font-size: 20px; }?

A. 15px

B. 30px

C. 20px

D. 25px

ANSWER: C

65. Identify the error in the CSS code: ".class { color: blue; font-weight; bold; }"

    A. Missing class name

    B. Incorrect property value

    C. Syntax error in property declaration

    D. No error

ANSWER: C

66. Which CSS property is used to control the outer space around an element?

    A. Content

    B. Padding

    C. Border

    D. Margin

ANSWER: D

67. What does the 'box-sizing' property do?

    A. Alters the display property

    B. Modifies the margin size

    C. Adjusts the border thickness

    D. Changes the CSS Box Model calculation

ANSWER: D

68. Which of the following is true about the CSS selector div.example?

    A. Selects the first div with the class "example"

    B. Selects all divs with the class "example"

    C. Selects all elements with the class "example"

    D. Selects all divs

ANSWER: B

69. How do you access the value of a property in a JavaScript object?

    A. object{propertyName}

    B. Both C and D

    C. object[propertyName]

    D. object.propertyName

ANSWER: B

70. How can you make the total width of an element be 100px including padding and border?

    A. Set width to 100px without 'box-sizing' property

    B. Use 'box-sizing: border-box;' with width set to 100px

    C. Set width, padding, and border so their sum is 100px

    D. Use 'box-sizing: content-box;' with width set to 100px

ANSWER: B

71. What will be the output of console.log(typeof { })?

    A. 'undefined'

    B. 'array'

    C. 'object'

    D. 'null'

ANSWER: C

72. What will be the output of this code snippet?

    numbers[10] = 11;

    A. 11

    B. 4

    C. 3

    D. 10

ANSWER: A

73. Identify the issue in this array declaration:

    let numbers = new Array(-5);

    A. Logical error

    B. Syntax error

    C. No error

    D. Negative size

ANSWER: D

74. What is a method in JavaScript?

    A. A function stored as an object property

    B. A predefined function

    C. A loop inside an object

    D. An external library function

ANSWER: A

75. let fruits = ['apple', 'banana', 'mango'];

    console.log(fruits[1]);

    A. apple

    B. apple,banana

    C. mango

    D. banana

ANSWER: D

76. Which of the following array methods in JavaScript does not change the original array?

    A. splice()

    B. forEach()

    C. push()

    D. sort()

ANSWER: B

77. Spot the mistake in this code snippet:

    let data = [1, 2, 3];

    delete data[1];

    console.log(data[1]);

    A. Syntax error

    B. No error

    C. 2 is not deleted

    D. undefined is logged instead of 2

ANSWER: D

78. Consider the following code:

    "let arr = [1, 2, 3];"

    arr[5] = 5;

    console.log(arr.filter(x => x === undefined).length);

    What is the output?

    A. 3

    B. 0

    C. 5

    D. 2

ANSWER: D

79. Which of the following keys is generally used to represent the relationships between the tables?

    A. Primary key

    B. Candidate key

    C. Foreign key

    D. Secondary key

ANSWER: C

80. The language used in application programs to request data from the DBMS is referred to as the

    A. DML

    B. TCL

    C. DDL

    D. DCL

ANSWER: A

81. Which one of the following keywords is used to find out the number of values in a column?

    A. ADD

    B. COUNT

    C. TOTAL

    D. SUM

ANSWER: B

82. The Database Management Query language is generally designed for the _____

A. Support end-users who use English like commands

B. All of the above

C. Support in the development of the complex applications software

D. Specifying the structure of the database

ANSWER: B

83. A computer security protocol for logging in can be considered as the example of the _____ component of an information system.

A. Data

B. Procedure

C. Hardware

D. Software

ANSWER: B

84. A logical schema

A. is a standard way of organizing information into accessible parts.

B. describes how data is actually stored on disk.

C. both (A) and (C)

D. is the entire database.

ANSWER: A

85. Related fields in a database are grouped to form a

A. menu

B. data table

C. data file

D. data record.

ANSWER: D

86. Which of the following levels is considered as the level closest to the end-users?

A. Internal Level

B. Physical Level

C. Conceptual Level

D. External Level

ANSWER: D

87. The database environment has all of the following components except:

A. database administrator.

B. separate files.

C. database

D. users

ANSWER: B

88. The language which has recently become the de facto standard for interfacing application programs with relational database systems is

A. Oracle

B. Postgre SQL

C. SQL

D. Mongo DB

ANSWER: C

89. Which of the following is the correct full form of Sass in Bootstrap 4?

A. Syntactically awesome Spreadsheets

B. Scripting awesome Stylesheets

C. Syntactically awesome Stylesheets

D. None of the above

ANSWER: C

90. Which of the following classes indicates the capitalized text?

A. .text-upper

B. .text-capitalize

C. .uppercase

D. .text-uppercase

ANSWER: B

91. Which of the following options is/are supported in Bootstrap 4?

A. Both (a) and (b)

B. Sass

C. None of the above

D. Flexbox

ANSWER: A

92. Which of the following contextual classes are used to color the panels?

    A. .panel-success

    B. .panel-primary

    C. .panel-info

    D. All of the above

ANSWER: D

93. How many types of container classes are there in Bootstrap 4?

    A. 1

    B. 2

    C. 4

    D. 3

ANSWER: B

94. Can badges be used inside a button class?

    A. True

    B. None of the above

    C. False

ANSWER: A

95. Is Bootstrap mainly used for the purpose of front-end development?

    A. True

    B. False

    C. None of the above

ANSWER: A

96. Which of the following class styles a table with strips on rows?

    A. .table-striped

    B. .table

    C. None of the above

    D. .table-hovered

ANSWER: A

97. Which amongst the following versions of Bootstrap uses the flat design?

    A. Bootstrap

    B. Bootstrap 1

    C. Bootstrap 4

    D. Bootstrap 3

ANSWER: C

98. Which of the following classes amongst these options is/are contextual?

    A. All of the given options are correct

    B. .danger

    C. .info

    D. .warning

ANSWER: A

99. Which of the following name was given to Bootstrap originally?

    A. Twitter Blueprint

    B. None of the above

    C. Twitter Bootstrap

    D. Twitter Blueprint Bootstrap

ANSWER: C

100. Which operator is used to check both the value and the type of a variable in JavaScript?

    A. ==

    B. !==

    C. ===

    D. !=

ANSWER: C

101. Which of the following is not a loop structure in JavaScript?

    A. if

    B. do-while

    C. while

    D. for

ANSWER: A

102. What will be the output of the following code?

let a = 2;

if(a > 3) {

console.log('Yes');

} else {

console.log('No');

}

A. Yes

B. Undefined

C. Error

D. No

ANSWER: D

103. What is the output of the following code snippet?

let x = 'Hello';

let y = 'World';

console.log(x + ' ' + y);

A. 'Hello World'

B. HelloWorld

C. 'Hello' 'World'

D. Hello World

ANSWER: A

104. What does the if statement in JavaScript do?

A. Declares a variable

B. Executes a block of code based on a condition

C. Loops through a block of code

D. Prints a message to the console

ANSWER: B

105. What is the output of this code snippet?

for (let i = 1; i < 3; i++) {

console.log(i);

}

A. 123

B. 0-1-2

C. 12

D. 37623

ANSWER: A

106. Consider the following code:

let x = 50;

let result = (x > 13) ? 'Yes' : 'No';

console.log(result);

What is the output?

A. 'Yes'

B. FALSE

C. TRUE

D. 'No'

ANSWER: A

107. In a switch statement, what keyword is used to terminate a case in JavaScript?"

A. stop

B. break

C. exit

D. end

ANSWER: B

108. Which of the following is an example of a loosely typed language?

A. C++

B. Java

C. Python

D. JavaScript

ANSWER: D

109. Identify the problem in this code:

```
let j = 0;
while (j < 5) {
console.log(j);
}
```

A. Logical error

B. Infinite loop

C. No output

D. Syntax error

ANSWER: B

110. What are the three optional expressions, separated by semicolons in a for loop?

A. Initializer, Condition, Incrementer

B. Incrementer, Initializer, Condition

C. Condition, Incrementer, Initializer

D. Condition, Initializer, Incrementer

ANSWER: A

111. Find the error in the following code:

```
for (let i = 0; i <= 5; i++) {
if(i % 2 == 0) continue;
console.log(i);
}
```

A. Syntax error

B. It only prints even numbers

C. It doesn't print any number

D. It only prints odd numbers

ANSWER: D

112. What happens when you increase the cellpadding in a table?

A. Increase the softness of your site

B. All of the above

C. Increase the distance between cell and content

D. Increase the space between cells

ANSWER: C

113. Which HTML tag can be used to insert images into your web page?

A. img

B. None of the above

C. scr

D. picture

ANSWER: A

114. Which colors consist of equal amounts of all basic colors?

A. purple, green and blue

B. None of the above

C. white, black and gray

D. white, blue and gray

ANSWER: C

115. To start a list using circles, what should be used?

A. <ul type="circle">

B. <ul type="round">

C. <ul ="round">

D. <ul "round">

ANSWER: A

116. Which of the following is the correct HTML for creating a hyperlink?

A. india .com

B. india .com

C. <a>https://w.w.w.india .com

D. india .com

ANSWER: A

117. The main container for <TR>, <TD> and <TH> is
_____

A. <DATA>

B. None of the above

C. <TABLE>

D. <GROUP>

ANSWER: C

118. Which of the following best completes the statement: All normal webpages consists of _____

A. Body and frameset

B. Top and bottom

C. Head and body

D. None of the above

ANSWER: C

119. What is the primary purpose of the <body> tag in an HTML document?

A. Holds the content visible to the user

B. Specifies external resources

C. Defines the title of the document

D. Contains the document's metadata

ANSWER: A

120. Which tag is used for creating hypertext and hypermedia links is?

A. <IMG>

B. <HR>

C. <PRE>

D. <A>

ANSWER: D

121. Which HTML element is used to define the footer of an HTML document?

A. <end>

B. <footer>

C. <bottom>

D. <foot>

ANSWER: B

122. To create a bulleted list, use _____

A.

B.

C. None of the above

D.

ANSWER: D

123. Which HTML tag is used to add a paragraph break after the text?

A. <HR>

B. <PARAGRAPH>

C.

D. <P>

ANSWER: D

124. To created a bulleted list, use _____

A.

B.

C.

D. None of the above

ANSWER: A

125. The tag which allows you to nest other HTML tags within the description:

A. <CAPTION>

B. None of the above

C. <TD>

D. <TR>

ANSWER: A

126. Which property would you use to create space between elements?

A. Padding

B. Border

C. Margin

D. Outline

ANSWER: C

127. If an element has a width of 100px, padding of 10px, and border of 5px, what is the total width of the element if 'box-sizing' is set to 'border-box'?

A. 100px

B. 120px

C. 150px

D. 130px

ANSWER: A

128. What is the effect of setting margin: 0 auto; on an element?

A. It removes the element's margins

B. It centers the element horizontally

C. It sets the margin on all sides to auto

D. It increases the margin size

ANSWER: B

129. A block element inside a container does not respect the specified margin-top. What could be the reason?

A. Margin collapse

B. Border interference

C. Incorrect box-sizing

D. Padding on the container

ANSWER: A

130. What is the default value of the 'box-sizing' property?

A. content-box

B. border-box

C. padding-box

D. margin-box

ANSWER: A

131. If an element has margin: 10px; and padding: 20px; what is the space between the element and its neighboring element?

A. 20px

B. 30px

C. 10px

D. 40px

ANSWER: C

132. How does setting 'margin: auto;' affect an element?

A. Centers the element horizontally

B. Increases the element's height

C. Adds automatic padding

D. Does nothing specific

ANSWER: A

133. Given an element with padding: 20px; and width: 200px;, what is the total width of the element?

A. 220px

B. 200px

C. 240px

D. 260px

ANSWER: C

134. An element has width: 100px; padding: 15px; border: 5px solid black;. "What is its total width if box-sizing: content-box;?"

A. 115px

B. 130px

C. 100px

D. 150px

ANSWER: D

135. What is the problem with using margin: 0 auto; on an inline element?

A. Inline elements cannot be centered this way

B. The margin will collapse

C. No issue

D. The auto value is invalid for inline elements

ANSWER: A

136. Identify the issue: div { width: 100%; padding: 20px; } without using box-sizing: border-box;.

A. The div will be wider than its parent

B. The padding is ignored

C. No issue

D. The div's width is too small

ANSWER: A

137. Which pseudo-class targets the first child element within a parent?

A. :nth-child(1)

B. :first-of-type

C. :first

D. :first-child

ANSWER: D

138. In a relation database, every tuples divided into the fields are known as the_____.

A. Queries

B. Domains

C. Relations

D. All of the above

ANSWER: B

139. Which of the following refers to the number of attributes in a relation?

A. Row

B. Degree

C. All of the above

D. Column

ANSWER: B

140. Which one of the following command is a type of Data Definition language command?

A. Update

B. Create

C. Merge

D. Delete

ANSWER: B

141. Which one of the following command is used to delete the existing row in a table?

A. Update

B. Insert

C. Delete

D. None of the above

ANSWER: C

142. The term "TCL" stands for_____.

A. Transaction Control Language

B. Ternary Control Language

C. Transmission Control Language

D. Transaction Central Language

ANSWER: A

143. Which of the following is a top-down approach in which the entity's higher level can be divided into two lower sub-entities?

A. Aggregation

B. Specialization

C. Generalization

D. All of the above

ANSWER: B

144. In the relational table, which of the following can also be represented by the term "attribute"?

A. Entity

B. Both B &C

C. Row

D. Column

ANSWER: D

145. Which one of the following is a type of Data Manipulation Command?

A. Alter

B. Create

C. Delete

D. All of the above

ANSWER: C

146. Which _____ model emphasizes testing.

A. Spiral model

B. Waterfall model

C. V-V model

D. None of the above

ANSWER: C

147. State whether the statement is true or false. The testing objective is the same for each phase of the life cycle.

A. Maybe

B. True

C. Not sure

D. False

ANSWER: D

148. SDLC helps in identifying _____ of software.

A. All of the above

B. Omission

C. Inconsistency

D. Redundancy

ANSWER: A

149. Which of the following practices are used to integrate security?

A. Both (A) and (B)

B. Top-down approach

C. DevSecOps

D. Bottom-up approach

ANSWER: C

150. What is the other name of Verification and validation model?

A. V-model

B. Big Bang model

C. Spiral model

D. Waterfall model

ANSWER: A

151. Which of the following is carried out first in the SDLC model?

A. Communication

B. Validation

C. Encryption

D. Verification

ANSWER: D

152. Which of the following is not a phase of SDLC?

A. Deployment

B. All of the above

C. Design and Prototyping

D. Implementation

ANSWER: B

153. SDLC launches the software for _____ testing.

A. Beta

B. Gamma

C. Alpha

D. All of the above

ANSWER: D

154. Which of the following are the benefits of the iterative model?

A. Easier to manage

B. Equal distribution of workload

C. Revenue Generation

D. All of the above

ANSWER: D

155. The defined requirements need approval from _____.

A. Customers

B. Stakeholders

C. Market analysts

D. All of the above

ANSWER: B

156. Which of the following is the correct heading size for <h5> in Bootstrap 4?

A. 16 px

B. 12 px

C. 20 px

D. None of the above

ANSWER: A

157. Which of the following statements is/are correct about Bootstrap 4?

   A. It gives the ability to create responsive designs

   B. All of the them

   C. It provides a free front-end framework

   D. It is a completely open-source product

ANSWER: B

158. Which of the following plugins can be used to cycle through the elements like a slideshow?

   A. Carousel

   B. Slideshow

   C. Scrollspy

   D. None of the above

ANSWER: A

159. Who is/are the developers of Bootstrap?

   A. Tim Berners-Lee

   B. None of the above

   C. Mark Otto and Jacob Thornton

   D. Håkon Wium Lie

ANSWER: C

160. Which of the following statements is true about Jumbotron in Bootstrap 4?

   A. Both (a) and (b) are correct

   B. None of the above options is correct

   C. In order to create a container with the help of using class .jumbotron

   D. The Jumbotron in Bootstrap 4 can be used to increase the size of headings and also insert a large amount of margin for the purpose of landing page control

ANSWER: A

161. Which of the following contextual class is used for the purpose of showing warning?

   A. .active

   B. .danger

   C. .warning

   D. None of the above

ANSWER: C

162. Which of the following classes can be used to make image with rounded corners in Bootstrap 4?

   A. Both (c) and (d)

   B. None of the them

   C. .img-rounded

   D. .rounded

ANSWER: A

163. Why is the Glyphicons used in Bootstrap 4?

   A. For the purpose of providing different icons

   B. Slideshow

   C. Graphic images

   D. Animations

ANSWER: A

164. What is the font-size of <h3> in Bootstrap 4 by default?

   A. None of the below

   B. 19 px

   C. 20 px

   D. 28 px

ANSWER: C

165. Which of the following class can be used to make the images and other content in a web page automatically adjusts to fit the size of the screen?

   A. .img-rounded

   B. None of the above

   C. .img-circle

   D. .img-fluid

ANSWER: D

166. What does the following meta tag do?

<meta name="viewport" content="width=device-width, initial-scale=1">

A. Prevents browsers from scaling desktop websites on mobile

B. Tells the browser to look for media queries in the CSS file

C. Makes the web page responsive automatically

D. None of the above options are correct

ANSWER: C

167. Which property adds shadow to text?

A. font-shadow

B. box-shadow

C. text-shadow

D. shadow

ANSWER: C

168. What is the purpose of the controls attribute in the HTML5 <audio> tag?

A. To set the audio file path

B. "To display play, pause, and volume controls"

C. To autoplay the audio

D. To loop the audio

ANSWER: B

169. How do you apply a font family of "Arial" to an element?

A. "font-family: "Arial";"

B. "font: "Arial";"

C. "font-type: "Arial";"

D. "typeface: "Arial";"

ANSWER: A

170. Which HTML5 tag is used to embed video files into a web page?

A. <clip>

B. <media>

C. <movie>

D. <video>

ANSWER: D

171. What is wrong with this HTML5 code: <main><article>This is a new article</article><aside>This is a new aside</aside></main>?

A. No error

B. Missing <h1> in <article>

C. <aside> should not be inside <main>

D. <main> should not contain <article>

ANSWER: A

172. Which property is used to set the text color?

A. text-color

B. color

C. font-color

D. text-style

ANSWER: B

173. What does the loop attribute do in an HTML5 <video> element?

A. Repeats the video a specified number of times

B. Automatically plays the next video

C. Continuously loops the video

D. Causes the video to play in reverse

ANSWER: C

174. Find the error in this code: <figure><img src="image.jpg"><figcaption>Indian Flag</figure>

A. Missing closing </figcaption> tag

B. No error

C. Incorrect placement of <figcaption>

D. Missing alt attribute in <img>

ANSWER: A

175.   How do you make text uppercase using CSS?

   A. text-case: uppercase;

   B. font-case: uppercase;

   C. text-transform: uppercase;

   D. text-style: uppercase;

ANSWER: C

176. What is the significance of the <main> element in HTML5?

A. To create the main header

B. To define the primary footer

C. To specify the main content of a document

D. To define the main navigation links

ANSWER: C

177. What does this HTML5 code result in? <video width="420" height="340" controls><source src="movie.mp4" type="video/mp4"><source src="movie.ogg" type="video/ogg">Your browser does not support the video tag.</video>

A. Displays two different videos side by side

B. Chooses the best video format automatically

C. Shows an error message

D. Plays two videos in sequence

ANSWER: B

178. Identify the issue in this HTML5 code: <footer><nav>
Contact Us
</nav></footer>

A. Inappropriate use of

B. Incorrect placement of <nav> within <footer>

C. No error

D. Missing <a> tags in <nav>

ANSWER: D

179. What does this HTML5 code create? <nav>
Home
About Us
</nav>

A. A list of images

B. A group of checkboxes

C. A navigation bar with links

D. A set of radio buttons

ANSWER: C

180. What will this HTML5 code represent? <article><h2>Environment</h2><p>Noise pollution</p></article>

A. An independent, self-contained composition

B. A comment section

C. A main navigation bar

D. A header section

ANSWER: A

181. How can you fix a layout that breaks at certain viewport sizes?

A. Remove all media queries and use fixed sizes

B. Increase the base font size

C. Use additional media queries to adjust styles at those sizes

D. Decrease the overall page width

ANSWER: C

182. Spot the mistake in this HTML5 snippet: <section><header><h1>WELCOME</h1></header><p>Paragraph</section>

A. Missing closing </p> tag

B. Incomplete <section> tag

C. Missing closing </header> tag

D. Incorrect order of tags

ANSWER: C

183. What does this HTML5 code achieve? <section><h2>Heading</h2><p>Any text...</p></section>

A. Generates a pop-up

B. Creates a new webpage

C. Defines a specific section of a document

D. Designs a new template

ANSWER: C

184. In HTML5, which attribute is used to automatically play a video when the page is loaded?

A. auto

B. load

C. autoplay

D. play

ANSWER: C

185. Which property is used to change the font size of text in CSS?

A. font-style

B. text-transform

C. font-weight

D. font-size

ANSWER: D

186. How does this HTML5 snippet function?
<aside><p>This is a notification section.</p></aside>

A. Creates a sidebar

B. Creates a footer section

C. Creates a header

D. Creates a main content area

ANSWER: A

187. How can you create a flexible grid layout that uses available space but limits column width to 500px?

A. "Use display: grid; grid-template-columns: repeat(auto-fit, minmax(500px, 1fr));"

B. Use display: flex; flex-wrap: wrap; and set children's flex-basis: 500px;

C. "Use display: grid; grid-template-columns: repeat(auto-fill, minmax(auto, 500px));"

D. "Use display: grid; grid-template-columns: repeat(auto-fill, minmax(500px, 1fr));"

ANSWER: D

188. How do you apply styles for landscape and portrait orientations of a device?

A. @media (orientation: landscape) { ... } and @media (orientation: portrait) { ... }

B. @media screen and (orientation: landscape) { ... }

C. @media only screen and (orientation: portrait) { ... }

D. Both A and B are correct

ANSWER: A

189. Which format is universally supported by the HTML5 <audio> tag across all major browsers?

A. OGG

B. MP3

C. WAV

D. AAC

ANSWER: B

190. What is the best practice for serving high-resolution images to devices with high-density displays?

A. Use JavaScript to detect the screen resolution and load images accordingly

B. Use the srcset attribute in the <img> element

C. Specify different images for different resolutions using CSS

D. All of the above

ANSWER: D

191. Why might a media query not apply its styles as expected?

A. The viewport meta tag is missing from the HTML document

B. There is a more specific style overriding the media query

C. The media query is incorrectly formatted

D. All of the above

ANSWER: D

192. How do you ensure that a video embedded in a web page is responsive?

A. Use the <video> element with the responsive attribute

B. Set the video's width and height attributes to 100%

C. Apply a media query to the video based on the viewport width

D. Use a container with a fixed aspect ratio and set the video to fill it

ANSWER: D

193. Which media query is correct for applying styles to devices with a width of at least 720px?

A. @media(min-width: 720px) { ... }

B. @media only screen (width >= 720px) { ... }

C. @media (width > 768px) { ... }

D. @media screen and (width: 720px) { ... }

ANSWER: A

194. Why is it important to use relative units like %, vw, vh, em, or rem in responsive design?

A. They allow for more precise control over layout dimensions

B. They make it easier to calculate dimensions

C. They enable the layout to adjust based on the parent element's size

D. They help the layout adapt to different screen sizes and resolutions

ANSWER: D

195. Given the following code, what is printed to the console?

let obj1 = { a: 1 };

let obj2 = { a: 1 };

console.log(obj1 === obj2);

A. TRUE

B. FALSE

C. null

D. Error

ANSWER: B

196. Consider the code:

let person = { name: 'Ankita', age: 21 };

delete person.age;

console.log(person.age);

A. 21

B. undefined

C. Ankita

D. Error

ANSWER: B

197. In an E-R diagram attributes are represented by

A. square

B. rectangle

C. ellipse

D. triangle

ANSWER: C

198. Which JavaScript method is used to select an HTML element by its ID?

A. getElementsByTagName()

B. querySelector()

C. getElementById()

D. getElementsByClassName()

ANSWER: C

199. The file organization that provides very fast access to any arbitrary record of a file is

A. Hashed file

B. B-tree

C. Unordered file

D. Ordered file

ANSWER: B

200. Which of the following are the properties of entities?

A. Attributes

B. Table

C. Groups

D. Header

ANSWER: A

201. In a relation _____

A. No two rows are identical

B. Ordering of rows is immaterial

C. (A) and (B) both are true

D. None of these.

ANSWER: C

202. What is the function of Bootstrap's Scrollspy component?

A. To update links in a navigation list based on scroll position

B. To hide elements on scroll

C. To add animations to scrolling

D. To lock an element at a specific scroll position

ANSWER: C

203. Which of the following is correct:

A. SQL permits attribute names to be repeated in the same relation.

B. None of these

C. a SQL query will not work if there are no indexes on the relations

D. a SQL query automatically eliminates duplicates.

ANSWER: D

204. DBMS helps achieve

A. Data independence

B. Neither (A) nor (C)

C. Centralized control of data

D. both (A) and (C)

ANSWER: D

205. Incase of entity integrity, the primary key may be

A. both Null & not Null.

B. any value.

C. Null

D. not Null

ANSWER: A

206. _____ produces the relation that has attributes of R1 and R2

A. Difference

B. Cartesian product

C. Intersection

D. Product

ANSWER: B

207. In a Hierarchical model records are organized as

A. List

B. Tree

C. Queue

D. Graph

ANSWER: B

208. Model preferred to create client/server applications is

A. Incremental Model

B. Concurrent Model

C. WINWIN Spiral Model

D. Spiral Model

ANSWER: B

209. Spiral model was developed by

A. Victor Bisili

B. Roger Pressman

C. Bev Littlewood

D. Berry Boehm

ANSWER: D

210. How can you troubleshoot a custom Bootstrap build that fails to compile?

A. Ensure file paths are correct

B. Review SCSS syntax errors

C. Check for missing dependencies

D. All of the above

ANSWER: D

211. Software evolution does not comprise:

A. Re-engineering activities

B. Development activities

C. Negotiating with client

D. Maintenance activities

ANSWER: C

212. Identify the correct statement with respect to Evolutionary development:

A. "Evolutionary development usually has two flavors; exploratory development, and throw-away prototyping."

B. Sometimes the construction of a throw-away prototype is not followed by a re-implementation of the software system using a more structured approach.

C. It facilitates easy project management through the high volume of documentation it generates.

D. Very large projects are usually done using an evolutionary development-based approach.

ANSWER: A

213. The linear sequential model of software development is

A. The best approach to use for projects with large development teams.

B. A reasonable approach when requirements are well defined.

C. A good approach when a working program is required quickly.

D. An old-fashioned model that cannot be used in a modern context.

ANSWER: B

214. The linear sequential model of software development is also known as the

A. Classical life cycle model

B. Waterfall model

C. Spiral model

D. both a and b

ANSWER: D

215. Which model is not suitable for large software projects but is good for learning and experimenting?

A. Waterfall model

B. Iterative model

C. Spiral model

D. Big Bang model

ANSWER: D

216. Which of the following tags is used to create a table header cell in HTML?

A. <header>

B. <table-header>

C. <th>

D. <tableheader>

ANSWER: C

217. What is the default value of the BORDER attribute in an HTML table?

A. 2 pixel

B. 3 pixel

C. None

D. 1 pixel

ANSWER: D

218. Which tag is used to create a drop-down list in an HTML form?

A. <dropdown>

B. <dlist>

C. <select>

D. <list>

ANSWER: C

219. How can you create a label for a form element in an HTML?

A. <label for="element_id">

B. <formlabel>

C. <flabel>

D. <input type="label">

ANSWER: A

220. What is the correct way to create a heading in HTML?

A. <title>text</title>

B. <head>text</head>

C. <header>text</header>

D. <h1>text</h1>

ANSWER: D

221. Which HTML tag is used to specify a section of a document as a block of quoted text?

A. <blockquote>

B. <cite>

C. <q>

D. <quote>

ANSWER: A

222. Which of the following attributes is used to uniquely identify an HTML element?

A. id

B. none of them

C. class

D. dot

ANSWER: A

223. Describe the purpose of the <footer> tag in HTML?

A. To define the footer section of a web page, typically containing information such as copyright and contact information

B. To provide information about the document, such as the title and meta tags

C. To specify the layout and design of the document

D. To contain the main content of the document

ANSWER: A

224. Which of the following HTML tag is used to add video to a webpage?

A. <iframe>

B. <audio>

C. <embed>

D. <video>

ANSWER: D

225. To set the color for table borders, use _____

A. tablecolor=#004500

B. bordercolor=#004500

C. bgcolor=#0045300

D. bgimage=#004500

ANSWER: B

226. What is the purpose of the alt attribute in the <img> tag?

A. To specify the file type of the image

B. To specify the source URL of the image

C. To provide a text description of the image for accessibility

D. To specify the width and height of the image

ANSWER: C

227. Which of the following represents the basic structure of an HTML document?

A. head, title, body

B. article, section, nav

C. div, span, p

D. header, footer, article

ANSWER: A

228. To separate items in a single list, which of the following should you use?

A. and

B. All of the above

C. and

D. and

ANSWER: A

229. The HTML tag used to create a hypertext relationship between the current document and an external resource is?

A. <A>

B. None of the above

C. <ISINDEX>

D. <LINK>

ANSWER: D

230. The style element holds the document for setting_____.

A. font, colour and alignment

B. colour, alignment

C. font, colour, alignment and border

D. colour, alignment and border

ANSWER: C

231. What is the purpose of this HTML5 Canvas code: <canvas id="myCanvas"></canvas> in HTML and var canvas = document.getElementById('myCanvas'); var ctx = canvas.getContext('2d'); ctx.fillRect(20, 20, 150, 100); in JavaScript?

A. To create an interactive form

B. To create an animation

C. To display a static image

D. To draw a rectangle on the canvas

ANSWER: D

232. What will this CSS media query do? @media (max-width: 600px) { /Unknown node type: em/ }

A. Apply the CSS rules to screens larger than 600px

B. Apply the CSS rules to screens smaller than 600px

C. Hide content on screens smaller than 600px

D. Change the layout on all devices

ANSWER: B

233. In the context of HTML5's Drag and Drop API, what does the dataTransfer object do?

A. Transfers data between drag and drop operations

B. Plays a role in touch-screen interactions

C. Changes the style of the dragged element

D. Controls the draggable properties of elements

ANSWER: A

234. What is the mobile-first approach?

A. Exclusively designing websites for mobile devices

B. Exclusively designing websites for mobile devices

C. Designing a website for mobile devices before desktops

D. Prioritizing mobile functionality over desktop

ANSWER: C

235. How does this HTML5 code function for Drag and Drop? HTML: <div id="drag1" draggable="true"></div> JS: document.getElementById("drag1").addEventListener ("dragstart", function(event) { event.dataTransfer.setData("text/plain", event.target.id); });

A. It prevents the div from being dropped

B. It changes the style of the div when dragged

C. It tracks the movement of the mouse

D. It makes the div draggable and stores the div's ID

ANSWER: D

236. Identify the issue in this CSS media query: @media (min-width: 600px) { p { font-size: 18px; } }

A. It incorrectly uses min?width

B. No issue

C. The font size is too large

D. It doesn't specify screen height

ANSWER: B

237. What does this combination of HTML and CSS achieve? HTML: <div class="container"></div> CSS: .container { display: flex; flex?wrap: wrap; }

A. Forces all child elements to stay in a single line

B. Aligns all child elements to the right

C. Creates a responsive container that adjusts its child elements

D. Creates a fixed layout not affected by screen size

ANSWER: C

238. How can you troubleshoot a custom Bootstrap build that fails to compile?

A. Review SCSS syntax errors

B. Ensure file paths are correct

C. Check for missing dependencies

D. All of the above

ANSWER: D

239. Spot the error in this HTML5 Canvas code: <canvas id="canvas"></canvas> JS: var c = document.getElementById('canvas'); var ctx = C.getContext('2d'); ctx.fillReact(10, 10, 100, 100);

A. Canvas element incorrectly referenced

B. No error

C. Incorrect method name fillReact

D. Incorrect context retrieval

ANSWER: C

240. What is the purpose of the HTML5 Canvas API?

A. To embed video content

B. To create draggable elements

C. To add animations to text

D. To draw graphics via scripting

ANSWER: D

241. How does the <canvas> element differ from <svg> in HTML5?

A. <canvas> requires a plugin, while <svg> does not

B. <canvas> draws graphics with JavaScript, while <svg> uses XML

C. <canvas> is for interactive graphics, while <svg> is static

D. <canvas> is older than <svg>

ANSWER: B

242. Spot the error in this responsive design code: HTML: <div class="mobile"></div> CSS: @media (min?width: 600px) { .desktop { display: none; } }

A. The display: none; rule is wrongly applied

B. The CSS class does not match the HTML class

C. No error

D. Incorrect use of min?width

ANSWER: B

243. What are the primary advantages of using HTML5's Canvas API over traditional bitmap images?

A. Interactivity and programmability

B. Compatibility with older browsers

C. Higher quality images and transparency support

D. Faster load times and smaller file sizes

ANSWER: A

244. What is the result of accessing a property that doesn't exist on an object?

A. 1

B. undefined

C. Error

D. null

ANSWER: B

245. What is the purpose of the this keyword in JavaScript objects?

A. Duplicate an object

B. Refer to the current object

C. Create a new object

D. Refer to the global object

ANSWER: B

246. What is the output of the following code snippet? let obj = { a: 5, b: 6 }; console.log(obj.a);

A. Error

B. undefined

C. 6

D. 5

ANSWER: D

247. How can you change the text content of an HTML element in the DOM using JavaScript?

A. element.textContent = 'new text value'

B. Neither A nor B

C. Both A and B

D. element.innerHTML = 'new text value'

ANSWER: C

248. What is the output of this code if the HTML contains an element with id demo and text 'Morning'? document.getElementById('demo').textContent = 'Good'; console.log(document.getElementById('demo').textContent);

A. Error

B. 'Good'

C. undefined

D. 'Morning'

ANSWER: B

249. What is the difference between innerHTML and textContent properties in DOM manipulation?

A. innerHTML can include HTML tags; textContent cannot

B. There is no difference

C. textContent is faster than innerHTML

D. textContent can include HTML tags; innerHTML cannot

ANSWER: A

250. How do you create a new object in JavaScript?

A. Neither A nor B

B. Both A and B

C. new Object()

D. Object.create()

ANSWER: B

251. What will be the result of the following code if the HTML has multiple p tags? let paragraphs = document.getElementsByTagName('p'); for(let i = 0; i < paragraphs.length; i++) { paragraphs[i].style.color = 'red'; }

A. Only the first p tag turns red

B. All p tags turn red

C. A TypeError occurs

D. No change in p tags

ANSWER: B

252. Consider this code: let items = document.querySelectorAll('.item'); console.log(items.length); What does it output if there are five elements with class item in the HTML?

A. 5

B. 'item'

C. undefined

D. Error

ANSWER: A

253. What is the Incremental Model a combination of?

A. Waterfall Model & RAD Model

B. Build & Fix Model & Waterfall Model

C. Linear Model & Prototyping Model

D. Linear Model & RAD Model

ANSWER: A

254. Which is not one of the types of prototype in the Prototyping Model?

A. Horizontal Prototype

B. Domain Prototype

C. Vertical Prototype

D. Diagonal Prototype

ANSWER: D

255. What is the primary use of Bootstrap's Modal component?

A. To organize content

B. To display interactive alerts

C. To display additional information in a popup

D. To navigate between pages

ANSWER: C

256. Which of the following models is not suitable for accommodating any change?

A. Build & Fix Model

B. Prototyping Model

C. RAD Model

D. Waterfall Model

ANSWER: D

257. What should you verify if a Bootstrap customization does not display correctly on a webpage?

A. The browser cache has been cleared

B. The customization uses correct syntax

C. The CSS file is linked correctly

D. All of the above

ANSWER: D

258. The two dimensions of the spiral model are:

A. Radial, angular

B. Radial, perpendicular

C. Diagonal, angular

D. Diagonal, perpendicular

ANSWER: A

259. Which component is used to create a group of buttons that can toggle between active and inactive states?

A. Dropdown

B. Input group

C. Navs

D. Button group

ANSWER: D

260. In what file type is Bootstrap's source code primarily written?

A. .scss

B. .html

C. .css

D. .js

ANSWER: A

261. The incremental model of software development is:

A. A good approach when a working core product is required quickly.

B. A revolutionary model that is not used for commercial products.

C. The best approach to use for projects with large development teams.

D. A reasonable approach when requirements are well defined.

ANSWER: A

262. Build & Fix Model is suitable for programming exercises of _____ LOC (Line of Code).

A. 400-1000

B. above 1000

C. 200-400

D. 100-200

ANSWER: D

263. What does the Bootstrap Carousel component do?

A. Rotates text

B. Collapses content

C. Displays a series of images or slides in a slideshow

D. Expands forms

ANSWER: C

264. What is the average effective global activity rate in an evolving E-type system invariant over the lifetime of the product?

A. Feedback systems

B. Self-regulation

C. Reducing quality

D. Organizational stability

ANSWER: B

265. Which Bootstrap component should be used for complex form layouts that require inline arrangement of form controls?

A. Card

B. Grid system

C. Forms

D. Input group

ANSWER: D

266. In Bootstrap, what is the purpose of the Jumbotron component?

A. To enhance navigation

B. To create a lightweight container for calling extra attention to content

C. To display modal dialogs

D. To increase font size

ANSWER: B

267. How do Bootstrap Navs differ from Tabs?

A. Navs are always vertical, while Tabs are horizontal

B. Navs offer more style options

C. Navs are for navigation, Tabs are for content organization

D. Tabs are clickable, while Navs are not

ANSWER: C

268. What is the main method for customizing Bootstrap's visual design?

A. Overriding existing CSS

B. Using inline styles

C. Editing the source code

D. Using CSS preprocessors

ANSWER: D

269. Which Bootstrap component is best suited for displaying a list of items with contextual background colors?

A. Progress bar

B. Tooltip

C. Table

D. List group

ANSWER: D

270. What class is used to make a navigation bar sticky at the top of the viewport in Bootstrap?

A. .fixed-top

B. .top-nav

C. .nav-fixed

D. .sticky-top

ANSWER: D

271. How do you create a basic alert box in Bootstrap that can be dismissed by the user?

A. Use .alert with .alert-dismissible

B. Use .alert with .alert-close

C. Use .alert with .close

D. Use .alert with .dismiss-alert

ANSWER: A

272. Design phase is followed by _____.

A. Maintenance

B. Coding

C. None of the above

D. Testing

ANSWER: B

273. What is the advantage of using Bootstrap's built-in mixins for customizations?

A. Less code redundancy

B. Easier debugging

C. None of the above

D. Faster compilation

ANSWER: A

274. Which of the following is a critical consideration when upgrading Bootstrap versions in a heavily customized project?

A. Reducing page size

B. Increasing compatibility with browsers

C. Checking for deprecated features

D. Rewriting all custom code

ANSWER: C

275. How does creating a custom theme differ from modifying Bootstrap's core files?

A. It's more stable across updates

B. It requires more coding skills

C. It's less flexible

D. It's cheaper

ANSWER: A

276. The tags which are required for every HTML page you create

A. Document

B. Comment

C. Container

D. None of the above

ANSWER: A

277. Which tags and text that do not show directly on the page are placed in

A. Head tag

B. Body tag

C. Title tag

D. None of the above

ANSWER: A

278. How does this HTML and CSS code function? <div class="responsive"></div> in HTML and .responsive { width: 100%; max?width: 800px; } in CSS

A. It makes the div element stretch to fill 100% of the screen

B. It limits the div width to 800px on all devices

C. It makes the div element responsive to screen size, with a max?width of 800px

D. It creates a fixed?size div not affected by screen size

ANSWER: C

279. To start a list at the count of 4, use

A. <ol begin="4">

B. <ol list="4">

C. <ol start="4">

D. <ol num="4">

ANSWER: C

280. Which section is used for text and tags that are shown directly on your web page?

A. Head

B. Metatags

C. Body

D. title

ANSWER: C

281. If the background image is smaller than the screen, what will happen?

A. It will be streteched

B. It will be repeated

C. It will leave a blank space at the bottom of your page

D. None of the above

ANSWER: B

282. How can you open a link in a new browser window?

A. <a href="url target="_blank">

B. <a href="url target="new">

C. <a href="url" blank>

D. None of the above

ANSWER: A

283. Which HTML tag can add colspan=n?

A. <tr>

B. <td>

C. <table>

D. <th>

ANSWER: B

284. What do you mean by increasing the cellpadding?

A. Increase the softness of your site

B. Increase the space between cells

C. Increase the distance between cell and content

D. All of the above

ANSWER: C

285. What is the primary purpose of responsive web design?

A. To make websites load faster

B. To enhance the security of websites

C. To make websites visually appealing

D. To make websites work well on different devices

ANSWER: D

286. Explain the purpose of the viewport <meta> tag in responsive design?

A. To disable zooming on mobile devices

B. To define the width of the website

C. To control the layout on different browsers

D. To set the width of the viewport to match the device's width

ANSWER: D

287.   What does CSS media query primarily allow you to do in terms of responsive design?

   A. Change the font size based on the device

   B. Load different images on different devices

   C. Apply different stylesheets for different devices

   D. Control the display of content based on screen size or device

ANSWER: D

288.   Which HTML5 element is particularly useful for structuring a responsive web design?

   A. <div>

   B. <span>

   C. <section>

   D. <article>

ANSWER: C

289.   The symbol used at the beginning of the HREF text is

   A. @

   B. &

   C. $

   D. #

ANSWER: D

290.   Identify the mistake in this Drag and Drop code: HTML: <div id="drag1" draggable="true"></div>

JS:document.getElementById("drag1").addEventListener("dragstart", function(event) { event.dataTransfer.setData("text", event.target.id); });

   A. The data type set in setData is incorrect

   B. The draggable attribute is not set correctly

   C. The event listener is attached to the wrong element

   D. No mistake

ANSWER: A

291.   What is the primary purpose of using alt text in HTML images?

   A. To provide a text alternative for search engines

   B. To increase image loading speed

   C. To provide a text description for screen readers

   D. To display text when an image link is broken

ANSWER: C

292.   What role does the lang attribute in the <html> tag play in web accessibility?

   A. Specifies the language of the script used in the document

   B. Determines the language for styling the document

   C. Specifies the primary language of the document's content

   D. Controls the language of the browser interface

ANSWER: C

293.   How does the use of semantic HTML elements like <header>, <footer>, <nav>, and <main> enhance accessibility?

   A. By making the website load faster

   B. By improving the website's SEO

   C. By making it easier for screen readers to navigate the content

   D. By changing the visual appearance of the site

ANSWER: C

294.   What is the purpose of the aria-labelledby attribute in HTML?

   A. To label elements for styling purposes

   B. To specify a unique ID for an element

   C. To reference the ID of another element that provides a label

   D. To automatically generate labels for elements

ANSWER: C

295. What is the purpose of this HTML code in terms of accessibility? `<a href="https://www.example.com" title="Visit Example Website">Example</a>`

A. To provide a tooltip for the link

B. To make the link open in a new tab

C. To indicate that the link is external

D. To display a description when the link is focused or hovered

ANSWER: D

296. How does this HTML code improve accessibility? `<button aria?label=Close">X</button>`

A. By labeling the button for screen readers

B. By increasing the font size of the button text

C. By making the button more visually distinct

D. By adding a keyboard shortcut to the button

ANSWER: A

297. Identify the accessibility issue in this HTML code: `<img src="photo.jpg">`

A. The image file is too large

B. The src attribute is incorrect

C. There is no alt attribute

D. The image format is not supported

ANSWER: C

298. Spot the error in this HTML code from an accessibility perspective: `<input type="text" name="name" aria?label="Name">`

A. The type attribute is incorrect

B. The name attribute should match the aria?label

C. There should be a visible label in addition to aria?label

D. The aria?label attribute is unnecessary

ANSWER: C

299. Spot the mistake in this HTML table code:

`"<table><tr><td rowspan="2">Item 1</td><td>Price</td></tr><tr><td>Quantity</td></td></tr></table>"`

A. Incorrect rowspan attribute

B. Extra `</td>` tag

C. Missing `<th>` tags

D. No mistake

ANSWER: B

300. What is wrong with this HTML form element: `<input type="text" required="true" name="username">`?

A. The type attribute is incorrect

B. The required attribute does not need a value

C. The name attribute is unnecessary

D. No error

ANSWER: B

301. Find the error in this table structure: `<table><thead><tr><th>ID</th><th>Name</th></thead><tbody><tr><td>1</td><td>John</td></tr></tbody></table>`

A. Missing `<tr>` tag in `<thead>`

B. Missing `<tr>` tag in `<tbody>`

C. Incomplete `<thead>` section

D. Incomplete `<tbody>` section

ANSWER: C

302. What is the main purpose of using semantic elements in HTML5?

A. To enhance the look of the webpage

B. To make the code shorter

C. To improve search engine optimization and accessibility

D. To change the layout of the webpage

ANSWER: C

303. Which HTML5 element is typically used for the main navigation section?

A. <section>

B. <footer>

C. <header>

D. <nav>

ANSWER: D

304. What is the purpose of the <article> element in HTML5?

A. To mark up advertisements

B. To create a navigation bar

C. To define independent content that can be distributed

D. To define the header of a document

ANSWER: C

305. Which HTML5 semantic element should be used to define a section of a page that could be syndicated as a standalone unit?

A. <section>

B. <aside>

C. <article>

D. <header>

ANSWER: C

306. What does the :nth-child() pseudo-class do?

A. Selects elements based on their sequence number in a group of siblings

B. Changes the style of every nth-child in a list

C. Applies styles to children of a specific parent

D. All of the above

ANSWER: A

307. How do you select an input element when it has focus?

A. input:focus

B. input:active

C. input:hover

D. input:focus-within

ANSWER: A

308. What is the difference between pseudo-classes and pseudo-elements?

A. Pseudo-classes target states or conditions, while pseudo-elements target specific parts of an element"

B. Pseudo-classes can be combined, but pseudo-elements cannot"

C. Pseudo-elements are used for layout, while pseudo-classes are used for styling"

D. Pseudo-classes apply to all elements, while pseudo-elements only apply to container elements"

ANSWER: A

309. How do you style the first line of a paragraph?

A. p:first-line { font-weight: bold; }

B. p::first-line { font-weight: bold; }

C. p:first-line:: { font-weight: bold; }

D. p:line:first { font-weight: bold; }

ANSWER: B

310. How can you style every odd row of a table?

A. tr:nth-child(odd) { background-color: #eee; }

B. tr:odd { background-color: #eee; }

C. table tr:odd-child { background-color: #eee; }

D. tr:nth-odd { background-color: #eee; }

ANSWER: A

311. How do you create a custom bullet point for list items using CSS?

A. li::before { content: '• '; }

B. ul li:bullet { content: '? '; }

C. li:marker { content: '? '; }

D. ul::marker { content: '? '; }

ANSWER: A

312. What is required for the :hover pseudo-class to work on a link (tag)?

A. An href attribute

B. A specific class or ID

C. JavaScript event listeners

D. CSS animations attached

ANSWER: A

313. What is required for the :hover pseudo?class to w ork on a link (<a> tag)?

A. Ensure the element has a closing tag

B. Set the content property to something other than none

C. Verify that the display property is not set to none

D. Both B and C are correct

ANSWER: D

314. What is the primary use of CSS custom properties (variables)?

A. To store values that can be reused throughout the document

B. To create complex animations

C. To define new CSS properties

D. To enhance browser compatibility

ANSWER: A

315. How do CSS functions like calc(), var(), and attr() enhance CSS capabilities?

A. By adding programming logic to CSS

B. By allowing dynamic calculations and access to element attributes

C. By enabling conditional styling

D. By extending CSS with JavaScript

ANSWER: B

316. What is a primary benefit of using CSS variables in web design?

A. Simplifying theme customization

B. Facilitating responsive design

C. Improving maintainability

D. Enhancing animation control

ANSWER: C

317. How do you define a CSS variable named --main-color on the :root selector?

A. :root { --main-color: #333; }

B. :root { main-color: #333; }

C. root { var(--main-color: #333); }

D. :root { $main-color: #333; }

ANSWER: A

318. How can you use the calc() function to create a width that is 50% of its container minus 30px?

A. width: calc(50% - 30px);

B. width: calc(50% - 30);

C. width: 50% - 30px;

D. width: calc(50 - 30px);

ANSWER: A

319. Why might changes to a CSS variable not be reflected in the styles of a page?

A. The variable is not correctly defined within the scope

B. The browser does not support CSS variables

C. The variable is overridden by another style

D. Both A and C are correct

ANSWER: D

320. How can you troubleshoot a calc() expression that doesn't apply the expected result?

A. Check for syntax errors in the expression

B. Ensure all values are of compatible types (e.g., all lengths)"

C. Verify that no spaces are missing around operators

D. All of the above

ANSWER: D

321. What is the main advantage of using a CSS framework like Bootstrap?

A. Speeds up the development process by providing pre-designed components

B. Automatically optimizes CSS for performance

C. Allows for the creation of complex animations easily

D. Enhances the security of web applications

ANSWER: A

322. How do CSS preprocessors like SASS enhance CSS development?

A. By automatically converting CSS to JavaScript

B. By reducing the need for CSS files

C. By adding programming features such as variables, nested rules, and functions"

D. By encrypting CSS files for security

ANSWER: C

323. What is the difference between SASS and SCSS?

A. SASS files are faster to compile than SCSS

B. There is no difference; they are interchangeable

C. SASS uses a strict indentation-based syntax, while SCSS uses a syntax similar to CSS"

D. SCSS can only be used with Bootstrap

ANSWER: C

324. How do you include a Bootstrap component in your webpage?

A. Use a Bootstrap plugin

B. Add the Bootstrap CDN link in the <head> and use the component's class in your HTML

C. Download the Bootstrap library and reference it in your HTML

D. All of the above

ANSWER: B

325. What is a key reason to use CSS shorthand properties?

A. To exclusively enhance performance

B. To comply with CSS validation standards

C. To improve readability and maintainability

D. To introduce new CSS features

ANSWER: C

326. What is the impact of using !important in CSS?

A. It makes debugging more difficult by breaking the natural cascade

B. It is required for responsive design

C. It enhances security by enforcing style rules

D. It improves performance by prioritizing certain styles

ANSWER: A

327. How does CSS minification improve website performance?

A. By reducing the number of CSS files

B. By increasing the specificity of selectors

C. By decreasing the file size, leading to faster download times"

D. By automatically correcting syntax errors

ANSWER: C

328. What is the best practice for organizing CSS selectors and rules?

A. Ordering selectors alphabetically

B. Separating layout and typography styles into different files

C. Grouping selectors and rules by page section

D. All of the above

ANSWER: C

329. Which practice is recommended to optimize CSS rendering performance?

A. Relying heavily on inline styles

B. Using ID selectors extensively

C. Minimizing the use of universal selectors

D. Employing a large number of animations

ANSWER: C

330. What is a common issue when using multiple CSS frameworks or libraries simultaneously?

A. Conflicting styles leading to unexpected visual results

B. Incompatibility with JavaScript frameworks

C. Increased load times due to additional HTTP requests

D. All of the above

ANSWER: A

331. How can specificity conflicts in CSS be best resolved?

A. Using !important tags liberally

B. Refactoring CSS to simplify selectors

C. Relying on inline styles for overrides

D. Increasing the specificity of conflicting selectors

ANSWER: B

332. How do you position an element at the bottom right corner of its positioned ancestor?

A. position: fixed; bottom: 0; right: 0;

B. position: sticky; bottom: 0; right: 0;

C. position: absolute; bottom: 0; right: 0;

D. position: relative; bottom: 0; right: 0;

ANSWER: C

333. What does setting position: sticky; on an element do?

A. Keeps the element fixed at the top of the viewport

B. Allows the element to scroll away with the page

C. Positions the element based on the user's scroll position, toggling between relative and fixed"

D. Makes the element unresponsive to scroll events

ANSWER: C

334. How do you make an element with position: fixed; cover the entire viewport?

A. width: 100%; height: 100%;

B. right: 0; left: 0;

C. top: 0; right: 0; bottom: 0; left: 0;

D. top: 0; bottom: 0;

ANSWER: C

335. Why might an element with position: absolute; not appear where expected?

A. It has a z-index of -1

B. It's outside the viewport

C. Its containing block is not positioned

D. Both B and C are correct

ANSWER: C

336. What could cause a position: fixed; element to behave like position: absolute;?

A. The element is inside a transformed ancestor

B. The document is in quirks mode

C. The viewport is not defined

D. The browser does not support position: fixed;

ANSWER: A

337. How can you solve an issue where a sticky positioned element isn't sticking?

A. Ensure the element has a defined top, right, bottom, or left value"

B. Increase the z-index

C. Remove any overflow properties on ancestors

D. Both A and B are correct

ANSWER: D

338. Why might elements with different z-index values not stack as expected?

A. They are in different stacking contexts

B. There's a CSS error

C. The z-index is not supported

D. They have different position values

ANSWER: A

339. What is the purpose of responsive web design?

A. To make web pages render well on a variety of devices and window or screen sizes

B. To improve the speed of web pages

C. To enhance the security of web pages

D. To create a single design for all devices

ANSWER: A

340. Which HTML element is used to set the viewport to the device's width?

A.<meta name="viewport" content="width=device-width">

B.<meta name="device" content="width=viewport">"

C. <viewport width="device-width">"

D. <device width="viewport">"

ANSWER: A

341. What does a media query allow you to do in CSS?

A. Change the layout based on the device's orientation

B. Apply different styles for different devices based on criteria like width, height, or orientation"

C. Increase the loading speed of web pages

D. Encrypt web page data for security

ANSWER: B

342. Which CSS unit is recommended for responsive typography?

A. px

B. em

C. rem

D. pt

ANSWER: C

343. How do you apply a CSS style only for screens smaller than 600px?

A. @media only screen and (max-width: 599px) { ... }

B. @media screen and (max-width: 600px) { ... }

C. @media (min-width: 600px) { ... }

D. @media (width < 600px) { ... }

ANSWER: B

344. What is the difference between min-width and max-width in media queries?

A. min-width applies styles for widths greater than or equal to the specified value, while max-width applies styles for widths less than or equal to the specified value"

B. min-width applies styles for heights, while max-width applies styles for widths"

C. min-width is used for mobile devices, while max-width is used for desktops"

D. There is no difference, they are interchangeable"

ANSWER: A

345. Explain the purpose of a function in JavaScript?

A. To store data

B. To repeat a task multiple times

C. To encapsulate code that performs a specific task

D. To create web pages

ANSWER: C

346. What is the way to define a function in JavaScript?

A. function = myFunc() {}

B. function: myFunc() {}

C. function myFunc() {}

D. myFunc() = function {}

ANSWER: C

347. What will be the output of this function call?

function addition(a, b) {

return a + b;

}

console.log(addition(30, 40));

A. 30

B. 40

C. 70

D. Error

ANSWER: C

348. In JavaScript, what is a callback function?

A. A function that runs after the page loads

B. A function passed as an argument to another function

C. A function that calls itself

D. A function that performs an HTTP request

ANSWER: B

349. Which of the following is true about arrow functions in JavaScript?

A. They do not have their own this context

B. They can be used as constructors

C. They must have a return statement

D. They are the same as traditional functions

ANSWER: A

350.   What is the result of trying to extend the length of an array using a function in JavaScript?

```
function extendArray(arr) {
arr.push(5);
}
"let myArr = [11, 22, 33];"
extendArray(myArr);
console.log(myArr.length);
```

A. 3

B. 4

C. 5

D. Error

ANSWER: B

351.   What is an event in the context of JavaScript?

A. A user action like a mouse click

B. A change in the state of the program

C. A server response

D. All of the above

ANSWER: A

352.   Consider the following code snippet:

```
function display() {
return 'Hello World';
}
console.log(display());
```

What is the output?

A. 'display'

B. 'Hello World'

C. undefined

D. Error

ANSWER: B

353.   What will be the output of the following function?

```
function checkEven(number) {
return number % 2 === 0;
}
console.log(checkEven(17));
```

A. TRUE

B. FALSE

C. 3

D. Error

ANSWER: B

354.   Identify the error in this function:

```
function multiplication(x, y) {
console.log(x * y);
}
```

A. It does not return any value

B. It returns the wrong value

C. Syntax error

D. No error

ANSWER: A

355.   Identify the error in this code:

```
document.getElementByld('demo').innerText = 'Welcome';
```

A. Typo in method name

B. Missing element with id 'demo'

C. Incorrect property innerText

D. No error

ANSWER: A

356. Spot the mistake in this code:

let btn = document.getElementById('submit');

btn.onClick = function() {

console.log('Clicked');

};

A. Incorrect event handler

B. Missing element with id 'submit'

C. Syntax error in the function

D. No error

ANSWER: A

357. Which method is commonly used to attach an event handler to an element in JavaScript?

A. addEventListener()

B. attachEvent()

C. onEvent()

D. bindEvent()

ANSWER: A

358. What is event bubbling in JavaScript?

A. When an event on a child element is also triggered on parent elements

B. When an event triggers a server request

C. When an event occurs repeatedly in a short period

D. When an event fails to trigger

ANSWER: A

359. Which of the following is not a mouse event in JavaScript?

A. onclick

B. onmouseover

C. onmousemove

D. onchange

ANSWER: D

360. How can you stop event propagation in JavaScript?

A. event.stopPropagation()

B. event.preventDefault()

C. event.stop()

D. event.pause()

ANSWER: A

361. What does the following JavaScript code do?

document.getElementById('btn').onclick = function() {

alert('Button clicked');

};

A. Displays an alert when a button is clicked

B. Changes the text of a button

C. Reloads the page

D. Does nothing

ANSWER: A

362. Consider the following code snippet:

element.addEventListener('click', function() {"

console.log('Element clicked');

});

What does this code do?

A. Logs a message when the element is clicked

B. Changes the style of the element when clicked

C. Logs a message when the element is double-clicked

D. Submits a form when the element is clicked

ANSWER: A

363. What will be the result of this code if div1 is inside div2 in the HTML structure?

```
document.getElementById('div1').addEventListener('click', function(event) {

console.log('div1 clicked');

event.stopPropagation();

});

document.getElementById('div2').addEventListener('click', function() {

console.log('div2 clicked');

});
```

A. Only 'div1 clicked' will be logged

B. Only 'div2 clicked' will be logged

C. Both 'div1 clicked' and 'div2 clicked' will be logged

D. No message will be logged

ANSWER: A

364. Identify the error in this code:

```
document.getElementById('CLICK ME').onClick = function() {

console.log('Button clicked');

};
```

A. Incorrect event property

B. Syntax error

C. Logic error

D. No error

ANSWER: A

365. What is the issue with this code?

```
button.addEventListener('click', doSomething);
function doSomething() {"

alert('Clicked');

}
```

A. Missing event listener

B. doSomething is not defined

C. Incorrect event type

D. No error

ANSWER: D

366. What does AJAX stand for in web development?

A. Asynchronous JavaScript And XML

B. Automated JavaScript And XHTML

C. Advanced JavaScript And XML

D. Asynchronous Java And XML

ANSWER: A

367. What is the main advantage of using AJAX in a web application?

A. Faster server response time

B. Increased security

C. Reduced server load and asynchronous requests

D. Simpler coding requirements

ANSWER: C

368. What is the purpose of the Fetch API in JavaScript?

A. To send data to a server

B. To manipulate the DOM

C. To retrieve resources asynchronously over the network

D. To store data in the browser

ANSWER: C

369. What is the difference between the Fetch API and XMLHttpRequest?

A. Fetch can only send asynchronous requests

B. Fetch returns a promise, making it easier to work with asynchronous operations"

C. XMLHttpRequest is faster than Fetch

D. Fetch cannot handle responses in JSON format

ANSWER: B

370. Which keyword is used for declaring a variable in JavaScript that can be reassigned?

A. const

B. let

C. var

D. static

ANSWER: B

371. What will this Fetch API code snippet do?

```
"fetch('https://api.example.com/update', {"
"method: 'POST',"
body: JSON.stringify({name: 'Alice'})
})
.then(response => response.json())
.then(data => console.log(data));
```

A. Retrieves data from the URL

B. Updates data at the URL and logs the response

C. Deletes data at the URL

D. Submits data to the URL and logs the response

ANSWER: D

372. How does this code handle errors when using the Fetch API?

```
fetch('https://api.example.com/data')
.then(response => {
if (!response.ok) {
throw new Error('Network response was not ok');
}
return response.json();
})
".catch(error => console.error('Fetch error:', error));"
```

A. It logs errors to the console

B. It redirects the user to an error page

C. It retries the fetch request

D. It sends an error report to the server

ANSWER: A

373. What is the purpose of the try...catch statement in JavaScript?

A. To test code for errors

B. To speed up code execution

C. To declare variables

D. To loop through arrays

ANSWER: A

374. Identify the issue in this fetch request:

```
fetch('https://api.example.com/data', {
method: 'GET',"
body: JSON.stringify({id: 1})
});
```

A. GET requests should not have a body

B. The URL is incorrect

C. The method should be POST

D. There is a syntax error

ANSWER: A

375. Spot the error in this code:

```
fetch('https://api.example.com/data')
.then(response => console.log(response.json()));
```

A. Improper use of response.json()

B. Missing catch for error handling

C. The URL is incorrect

D. There is a syntax error

ANSWER: A

376. What type of error is thrown when an undefined variable is used in JavaScript?

A. SyntaxError

B. TypeError

C. ReferenceError

D. RangeError

ANSWER: C

377. Which statement is used to manually throw an exception in JavaScript?

A. throw

B. error

C. exception

D. raise

ANSWER: A

378. What does the finally block in a try...catch statement do?

A. It runs only if no errors occur

B. It runs after the try and catch blocks, regardless of the result"

C. It runs as a cleanup process

D. It checks for any remaining errors

ANSWER: B

379. What is the difference between a SyntaxError and a ReferenceError in JavaScript?

A. A SyntaxError occurs for mistakes in the code's syntax, while a ReferenceError occurs for illegal or invalid references to variables"

B. A SyntaxError occurs when variables are not found, while a ReferenceError occurs for syntax mistakes"

C. A SyntaxError is a runtime error, while a ReferenceError is a compile-time error"

D. No difference

ANSWER: A

380. What is the output of this code?

```
try {
console.log('Start');
throw new Error('An error occurred');
console.log('End');
} catch(e) {
console.log('Caught an error');
}
```

A. 'Start' 'End' 'Caught an error'

B. 'Start' 'Caught an error'

C. 'Caught an error'

D. 'Start' 'An error occurred'

ANSWER: B

381. What will this code output?

```
try {
let x = y;
} catch(e) {
console.log(typeof e);
}
```

A. 'undefined'

B. 'object'

C. 'string'

D. 'error'

ANSWER: B

382. What will happen when this code is executed?

```
try {
null.foo();
}
catch(e) {
console.log(e.name);
} finally {
console.log('Done');
}
```

A. Logs 'TypeError' and 'Done'

B. Logs 'ReferenceError' and 'Done'

C. Only logs 'Done'

D. Causes a fatal error

ANSWER: A

383. Which method is used to add an element to the end of an array in JavaScript?

A. push()

B. unshift()

C. pop()

D. shift()

ANSWER: A

384. Identify the error in this code:

```
try {
let result = 'Result';
console.log(result);
} catch(e) {
console.log(e);
} finally {
console.log(reslt);
}
```

A. Misspelled variable in the finally block

B. Error in the try block

C. Error in the catch block

D. No error

ANSWER: A

385. What is wrong with this function declaration?

```
function power(base, exponent) {"
if (exponent == 0) return 1;
"else return base * power(base, exponent - 1);"
} console.log(power(2));
```

A. It doesn't handle the case when exponent is not provided

B. It returns the wrong value

C. It causes an infinite loop

D. Syntax error

ANSWER: A

386. How do you find the length of an array in JavaScript?

A. array.size()

B. array.length

C. array.count()

D. length(array)

ANSWER: B

387. What does the splice method do in an array?

A. Copies a portion of an array

B. Concatenates arrays

C. Changes the content of an array

D. Finds an element in an array

ANSWER: C

388. In JavaScript, how can you check if a variable is an array?

A. typeof variable

B. variable.isArray()

C. Array.isArray(variable)

D. variable instanceof Array

ANSWER: C

389. The given Query can be replaced with _____:

```
SELECT name
FROM instructor1
WHERE salary <= 100000 AND salary >= 90000;
```

A. SELECT name
FROM instructor1
WHERE salary BETWEEN 100000 AND 90000

B. SELECT name
FROM instructor|
WHERE salary BETWEEN 90000 AND 100000;

C. SELECT name
FROM instructor1
WHERE salary BETWEEN 90000 AND 100000;

D. SELECT name
FROM instructor!
WHERE salary <= 90000 AND salary>=100000;

ANSWER: C

390. A Database Management System is a type of _____software.

A. It is a type of system software

B. It is a kind of application software

C. It is a kind of general software

D. Both A and C

ANSWER: D

391. The term "FAT" stands for_____

A. File Allocation Tree

B. File Allocation Table

C. File Allocation Graph

D. All of the above

ANSWER: B

392. Which of the following can be considered as the maximum size that is supported by FAT?

A. 8GB

B. 4GB

C. 4TB

D. None of the above

ANSWER: B

393. The term "NTFS" refers to which one of the following?

A. New Technology File System

B. New Tree File System

C. New Table type File System

D. Both A and C

ANSWER: A

394. Which of the following can be considered as the maximum size that is supported by NTFS?

A. 4GB

B. 16TB

C. 64TB

D. 8TB

ANSWER: C

395. A huge collection of the information or data accumulated form several different sources is known as _____:

A. Data Management

B. Data Mining

C. Data Warehouse

D. Both B and C

ANSWER: C

396. Which of the following can be used to extract or filter the data & information from the data warehouse?

A. Data redundancy

B. Data recovery tool

C. Data mining

D. Both B and C

ANSWER: C

397. Which one of the following refers to the copies of the same data (or information) occupying the memory space at multiple places.

A. Data Repository

B. Data Inconsistency

C. Data Mining

D. Data Redundancy

ANSWER: D

398. Which one of the following refers to the "data about data"?

A. Directory

B. Sub Data

C. Warehouse

D. Meta Data

ANSWER: D

399. Which of the following refers to the level of data abstraction that describes exactly how the data actually stored?

A. Conceptual Level

B. Physical Level

C. File Level

D. Logical Level

ANSWER: B

400. To which of the following the term DBA" referred?

A. Data Bank Administrator

B. Database Administrator

C. Data Administrator

D. None of the above

ANSWER: B

401. In general, a file is basically a collection of all related_____.

A. Rows & Columns

B. Fields

C. Database

D. Records

ANSWER: D

402. The term Data" refers to:

A. The electronic representation of the information(or data)

B. Basic information

C. Row Facts and figures

D. Both A and C

ANSWER: C

403. Rows of a relation are known as the _____.

A. Degree

B. Tuples

C. Entity

D. All of the above

ANSWER: B

404. What will the following JavaScript code do?

fetch('https://api.example.com/data')

.then(response => response.json())

.then(data => console.log(data));

A. Sends data to 'https://api.example.com/data'

B. Requests data from 'https://api.example.com/data' and logs it

C. Creates a new resource at 'https://api.example.com/data'

D. Deletes data from 'https://api.example.com/data'

ANSWER: B

405. Which of the following refers to the number of tuples in a relation?

A. Entity

B. Column

C. Cardinality

D. None of the above

ANSWER: C

406. Which one of the following is not an Evolutionary Process Model?

A. WINWIN Spiral Model

B. Incremental Model

C. Concurrent Development Model

D. All are Evolutionary Software Models

ANSWER: D

407. The Incremental Model is a result of combination of elements of which two models?

A. Build & FIX Model & Waterfall Model

B. Linear Model & RAD Model

C. Linear Model & Prototyping Model

D. Waterfall Model & RAD Model

ANSWER: D

408. Which of the following commands is used to save any transaction permanently into the database?

A. Commit

B. Rollback

C. Savepoint

D. None of the above

ANSWER: A

409. Which one of the following commands is used for removing (or deleting) a relation forms the SQL database?

A. Delete

B. Drop

C. Remove

D. All of the above

ANSWER: B

410. Which one of the following commands is used to restore the database to the last committed state?

A. Savepoint

B. Rollback

C. Commit

D. Both A & B

ANSWER: B

411. The database management system can be considered as the collection of _____ that enables us to create and maintain the database.

A. Translators

B. Programs

C. Keys

D. Language activity

ANSWER: B

412. What is the full form of DFD?

A. Data file diagram

B. Data flow document

C. Data flow diagram

D. None of the above

ANSWER: C

413. Which of the following refers collection of the information stored in a database at a specific time?

A. Independence

B. Instance of the database

C. Schema

D. Data domain

ANSWER: B

414. SQL stands for

A. Standard query language

B. Sequential query language

C. Structured query language

D. Server-side query language

ANSWER: C

415. The term "ODBC" stands for_____

A. Open database connectivity

B. Oracle database connectivity

C. Oral database connectivity

D. Object database connectivity

ANSWER: A

416. The term Data independence" refers to____

A. Programs are not dependent on the logical attributes of the data

B. Data is defined separately and not included in the programs

C. Programs are not dependent on the physical attributes of the data

D. Both A & C

ANSWER: D

417. Which of the following is used in the application programs to request data from the database management system?

A. Data Manipulation language

B. Data Definition Language

C. Data Control Language

D. All of the above

ANSWER: A

418. What is the relation calculus?

A. It is a kind of procedural language

B. It is a non-procedural language

C. It is a high-level language

D. It is Data Definition language

ANSWER: B

419. Which one of the following refers to the total view of the database content?

A. Conceptual view

B. Physical view

C. Internal view

D. External view

ANSWER: A

420. For what purpose the DML is provided?

A. Addition of new structure in the database

B. Manipulation & processing of the database

C. Definition of the physical structure of the database system

D. All of the above

ANSWER: B

421. The architecture of a database can be viewed as the _____

A. One level

B. Two-level

C. Three-level

D. Four level

ANSWER: C

422. In the relation model, the relation are generally termed as _____

A. Attributes

B. Tables

C. Rows

D. Tuples

ANSWER: B

423. Which one of the following is commonly used to define the overall design of the database?

A. Application program

B. Data definition language

C. Schema

D. Source code

ANSWER: C

424. Which one of the following commands is used to modify a column inside a table?

A. Drop

B. Update

C. Alter

D. Set

ANSWER: C

425. Which of the following best defines a database?

A. A collection of programs

B. A type of software

C. A collection of data

D. A type of computer

ANSWER: C

426. What is the primary function of a Database Management System (DBMS)?

A. Managing software installation

B. Data processing

C. Data storage and retrieval

D. Computer networking

ANSWER: C

427. Which symbol is used to represent weak entity set in E- R diagram ?

A. Dotted rectangle.

B. Diamond

C. Doubly outlined rectangle

D. Rectangle

ANSWER: C

428. SET concept is used in which model ?

A. Network Model

B. Hierarchical Model

C. Relational Model

D. None of these

ANSWER: C

429. What is Relational Algebra ?

A. Data Definition Language

B. Meta Language

C. Procedural query Language

D. None of the above

ANSWER: C

430. Key to represent relationship between tables is called

A. Primary key

B. Secondary Key

C. Foreign Key

D. None of these

ANSWER: C

431. Which one of the following is not a phase of Prototyping Model?

A. Quick Design

B. Coding

C. Prototype Refinement

D. Engineer Product

ANSWER: B

432. In case of entity integrity, the primary key may be

A. Unique

B. Null

C. both Null & not Null.

D. Not null

ANSWER: A

433. Verification is done by _____.

A. Web developer

B. Web designer

C. QA team

D. Tester

ANSWER: C

434. Verification focuses mainly on _____.

A. Process

B. Product

C. Dataset

D. All of the above

ANSWER: A

435. Which of the following is part of the classic waterfall model?

A. Feasibility study

B. Building prototype

C. Maintenance of software

D. Requirement Analysis

ANSWER: B

436. In the incremental model, requirements are prioritizeD. Is the statement true or false?

A. True

B. False

C. Maybe

D. Not sure

ANSWER: A

437. Which of the following is used in developing the product stage of SDLC?

A. Compilers

B. Interpreters

C. Debuggers

D. All of the above

ANSWER: D

438. Is minimal testing done at every stage of SDLC?

A. Yes

B. No

C. Maybe

D. Not sure

ANSWER: A

439. What happens to all the probable flaws in the testing stage of SDLC?

A. Tracked

B. Fixed

C. Retested

D. All of the above

ANSWER: D

440. How many types of product testing are done?

A. 1

B. 3

C. 2

D. 5

ANSWER: B

441. Which of the following is not a type of product testing?

A. System Testing

B. Manual Testing

C. Automated Testing

D. None of the above

ANSWER: D

442. Which of the following models is not in practice anymore?

A. Agile model

B. Waterfall model

C. Spiral model

D. V-shaped model

ANSWER: B

443. What is a V-shaped model called?

A. Validification model

B. Verification model

C. Both (A) and (B)

D. Neither (A) nor (B)

ANSWER: C

444. _____ model is most appropriate for handling risks.

A. Spiral model

B. V-shaped model

C. Agile model

D. Waterfall model

ANSWER: A

445. The spiral model has two dimensions namely _____ and _____.

A. diagonal, angular

B. radial, perpendicular

C. radial, angular

D. diagonal, perpendicular

ANSWER: C

446. Identify the disadvantage of Spiral Model.

A. Doesn't work well for smaller projects

B. High amount of risk analysis

C. Strong approval and documentation control

D. Additional Functionality can be added at a later date

ANSWER: A

447. How is Incremental Model different from Spiral Model?

A. Progress can be measured for Incremental Model.

B. Changing requirements can be accommodated in Incremental Model.

C. Users can see the system early in Incremental Model.

D. no difference between these two

ANSWER: C

448. If you were to create client/server applications, which model would you go for?

    A. WINWIN Spiral Model

    B. Spiral Model

    C. Concurrent Model

    D. Incremental Model

ANSWER: C

449. Selection of a model is based on

    A. Requirements

    B. Development team

    C. Users

    D. All of the mentioned

ANSWER: D

450. Which two models doesn't allow defining requirements early in the cycle?

    A. Waterfall & RAD

    B. Prototyping & Spiral

    C. Prototyping & RAD

    D. Waterfall & Spiral

ANSWER: C

451. Which of the following life cycle model can be chosen if the development team has less experience on similar projects?

    A. Spiral

    B. Waterfall

    C. RAD

    D. Iterative Enhancement Model

ANSWER: A

452. If you were a lead developer of a software company and you are asked to submit a project/product within a stipulated time-frame with no cost barriers, which model would you select?

    A. Waterfall

    B. Spiral

    C. RAD

    D. Incremental

ANSWER: C

453. Which two of the following models will not be able to give the desired outcome if user's participation is not involved?

    A. Waterfall & Spiral

    B. RAD & Spiral

    C. RAD & Waterfall

    D. RAD & Prototyping

ANSWER: D

454. RAD Software process model stands for _____.

    A. Rapid Application Development

    B. Relative Application Development

    C. Rapid Application Design

    D. Recent Application Development

ANSWER: A

455. What is the simplest model of software development paradigm?

    A. Spiral model

    B. Big Bang model

    C. V-model

    D. Waterfall model

ANSWER: B

456. Which of the following layout can be used to provide 100% width in Bootstrap 4?

A. Fluid Layout

B. Fixed Layout

C. Both (a) and (b) are correct

D. None of the above options is correct

ANSWER: A

457. Which among the following grid classes can be used for desktop?

A. md

B. sm

C. xs

D. None of the above

ANSWER: A

458. In Bootstrap 4, the contents can be placed within which of the following elements?

A. Columns

B. Containers

C. Rows

D. None of the above

ANSWER: B

459. Which of the following is the main difference between an ID and a class?

A. Classes are for use with spans and IDs are for use with DIVs

B. IDs are supposed to be only used once per page but Classes can be used multiple times per page, and one element can have more than one Class but should have only one ID"

C. IDs are better than Classes

D. None of the above

ANSWER: B

460. Which of the following bootstrap styles of buttons can be used to make the size of the button small?

A. btn-lg

B. .btn-sm

C. .btn-xs

D. .btn-block

ANSWER: B

461. Which of the following is correct about Bootstrap Mobile First Strategy?

A. A user has to insert the viewport meta tag to the element so as to make sure that proper rendering and touch zooming is enabled on mobile devices.

B. The width property can be used to control the width of the device. If it is kept in accordance to the width of the device, it will ensure that it is rendered across the different devices i.e., mobiles , desktops , tablets and so on properly."

C. In this, the initial-scale = 1.0 helps a user understand that when loaded, the web page will be rendered at a 1:1 scale, and no zooming will be applied out of the box."

D. All of the above.

ANSWER: D

462. Which of the following bootstrap style makes a set of buttons appear vertically stacked instead of horizontally placed?

A. .btn-group

B. .btn-toolbar

C. .btn-group-lg

D. .btn-group-vertical

ANSWER: D

463. Which of the following bootstrap styles can be used to create an Animated progress bar?

A. .progress-active

B. .active

C. .progress-stripeD.

D. None of the above.

ANSWER: C

464. Which of the following is correct about bootstrap media objects?

A. The media objects are abstract object styles which can be used for creating various types of components such as blog comments, Tweets, and so on. The feature is left - aligned or right - aligned image alongside the textual content."

B. The main objective of the media object is to make the code for developing these blocks of information shorter.

C. Both (a) and (b) are correct

D. None of the above.

ANSWER: C

465. Which of the following is correct about data - html Data attribute of Tooltip Plugin?

A. It can be used to apply a CSS fade transition to the tooltip.

B. It can add the HTML into the tooltip. If false, jQuery's text method will be used to insert content into the dom."

C. It can specify the position the tooltip (i.e., top | bottom | left | right | auto)."

D. It can delegate to the specified targets.

ANSWER: B

466. Which of the following is correct about data - delay Data attribute of Tooltip Plugin?

A. Sets the default title value if the title attribute isn't present.

B. Defines how the tooltip is triggereD.

C. Defines default content value if data-content attribute isn't present

D. Delays showing and hiding the tooltip in ms.

ANSWER: D

467. Which of the following bootstrap styles are used to create a vertical pills navigation?

A. .nav, .nav-tabs"

B. .nav, .nav-pills"

C. .nav, .nav-pills, .nav-stacked"

D. .nav, .nav-tabs, .nav-justified"

ANSWER: C

468. Which of the following bootstrap style is used to add text to .navbar?

A. .navbar-text

B. .text

C. .form-text

D. None of the above.

ANSWER: A

469. Which of the following is the default layout of a bootstrap form?

A. vertical

B. inline

C. horizontal

D. None of the above.

ANSWER: C

470. Which of the following is correct about Bootstrap Grid System?

A. Predefined grid classes like .row and .col-xs-4 are available for quickly making grid layouts. LESS mixins can also be used for more semantic layouts.

B. Columns create gutters (gaps between column content) via padding. That padding is offset in rows for the first and the last column via negative margin on .rows.

C. Grid columns are created by specifying the number of twelve available columns a user wish to span. For example, three equal columns would use three .col-xs-4."

D. All of the above.

ANSWER: D

471. Which of the following is true about bootstrap help text?

A. Bootstrap form controls have a block level help text that flows with the inputs

B. To add a full width block of content, use the .help-block after the <input>"

C. Both (a) and (b) are correct.

D. None of the above.

ANSWER: C

472. Which of the following is correct about Tab Plugin?

A. A user can toggle the Tab plugin's hidden content via data attributes.

B. A user can toggle the Tab plugin's hidden content via javascript.

C. Both (a) and (b) are correct

D. None of the above options are correct

ANSWER: C

473. Which of the following is correct about Bootstrap?

A. Bootstrap's responsive CSS adjusts to Desktops, Tablets and Mobiles."

B. Provides a clean and uniform solution for building an interface for developers.

C. It contains beautiful and functional built-in components which are easy to customize.

D. All of the above.

ANSWER: D

474. Which of the following is correct about bootstrap wells?

A. A well is a container in <div> that causes the content to appear sunken or an inset effect on the page.

B. To create a well, simply wrap the content that you would like to appear in the well with a <div> containing the class of .well."

C. Both (a) and (b) are correct.

D. None of the above.

ANSWER: C

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

A. .grouped-list

B. .select-list

C. .list-group

D. .list-grouped

ANSWER: C

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

A. .img-rounded

B. .img-circle

C. .img-rounded

D. None of the above

ANSWER: B

477. Which of the following class in Bootstrap is used to add a zebra-stripe to a table?

A. .tab-striped

B. .zebra-strip

C. .table-stripped

D. .table-striped

ANSWER: D

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

A. .btn-xl

B. .btn-lrg

C. .btn-large

D. .btn-lg

ANSWER: D

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

A. popup

B. alert

C. modal

D. window

ANSWER: C

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

A. .page

B. .pagin

C. .paginate

D. .pagination

ANSWER: D

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

A. .tag

B. .badge

C. .page

D. .flag

ANSWER: B

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

A. .img-circle

B. .image-circle

C. .image-rounded

D. .img-rounded

ANSWER: D

483. Which of the following class in Bootstrap is used to create a panel?

A. .panel

B. .container

C. .box

D. .jumbotron

ANSWER: A

484. Using which of the following, we can create a pager in Bootstrap?

A. .carousel

B. .collapse

C. .pager

D. None of the above

ANSWER: C

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

A. .collapse

B. .carousel

C. .pager

D. None of the above

ANSWER: A

486. Which of the following class in Bootstrap is used to create a well?

A. .wel

B. .well

C. .well-container

D. .container-well

ANSWER: B

487. The class used for creating the large size wells is -

A. .well-large

B. .well-big

C. .well-lg

D. .well-sm

ANSWER: C

488. The class used for creating the small size wells is -

A. .well-small

B. .well-short

C. .well-lg

D. .well-sm

ANSWER: D

489. Which Bootstrap class is used for creating the large size modals?

A. .modal-lg

B. .modal-sm

C. .modal-big

D. .modal-large

ANSWER: A

490. Which Bootstrap class is used for creating the small size modals?

A. .modal-large

B. .modal-sm

C. .modal-big

D. .modal-lg

ANSWER: B

491. Which Bootstrap class is used to indicate the uppercased text?

A. .text-capitalize

B. .text-upper

C. .uppercase

D. .text-uppercase

ANSWER: D

492. Which of the following plugin is used to create a tooltip?

A. popover

B. tooltip

C. modal

D. None of the above

ANSWER: B

493. Which of the following is the correct syntax to insert search icon?

A. "

B. "

C. "

D. "

ANSWER: C

494. Which of the following class is used to add a heading to the panel?

A. .panel-title

B. .panel-header

C. .panel-heading

D. .panel-head

ANSWER: C

495. Which of the following is correct method to add a success button?

A. <button class = "btn btn-congrats"> congrats </button>"

B. <button class = "btn button-congrats"> congrats </button>"

C. <button class = "button btn-congrats"> congrats </button>"

D. <button class = "button btn-primary"> congrats </button>"

ANSWER: A

496. Which of the following class in Bootstrap is used to create a label?

A. .popover

B. .badge

C. .flag

D. .label

ANSWER: D

497. Does the Bootstrap grid system works across multiple devices?

A. True

B. False

C. Can't say

D. May be

ANSWER: A

498. Glyphicons in Bootstrap are used for what purpose?

A. Using different icons on a webpage such as print, envelope, etC. "

B. Removing different icons on the page

C. Selecting different icons on the page

D. None of the above

ANSWER: A

499.   What is the default layout for forms in Bootstrap?

A. Horizontal

B. Inline

C. Stacked

D. Vertical

ANSWER: C

500.   Which class is used to right-align the navigation bar buttons in Bootstrap?

A. navbar-rgt

B. navbar-btn

C. navbar-right

D. navbar-default

ANSWER: C

501.   Which of the following class is used to create a thumbnail image?

A. .thumbnail

B. .image-thumbnail

C. .img-thumb

D. .img-thumbnail

ANSWER: D

502.   Which of the following class in Bootstrap is used to create a button as a link?

A. .btn-anchorlink

B. .btn-hyperlink

C. .btn-link

D. None of the above

ANSWER: C

503.   Which of the following grid class in Bootstrap is used for desktops?

A. xs

B. sm

C. lg

D. md

ANSWER: D

504.   The class "xs" in Bootstrap is used for -

A. tablets

B. desktop

C. phones

D. All of the above

ANSWER: C

505.   Which of the following class in Bootstrap is used to create an animated progress bar?

A. .active

B. .progress-success

C. .progress-active

D. All of the above

ANSWER: A

506.   Which of the following statement is correct about the Bootstrap wells?

A. By default, the size of wells is medium."

B. Using .well-sm and .well-lg classes, we can change the size of wells."

C. The .well-sm class is for small wells, and the .well-lg class is for large wells. And both classes should be used in conjunction with .well class."

D. All of the above

ANSWER: D

507.   Which utility class is used for changing the display property of an element to 'none' in Bootstrap?

A. d-none

B. display-none

C. hidden

D. invisible

ANSWER: A

508. How would you apply a Bootstrap class to add a small space between two buttons?

A. btn-space

B. .m-2

C. .m-3

D. .p-2

ANSWER: B

509. What class would you use to make a list item non-bulleted in a Bootstrap list group?

A. list-inline

B. no-bullets

C. list-unstyled

D. list-horizontal

ANSWER: C

510. Which Bootstrap utility class adds a shadow to a box?

A. .box-shadow

B. .shadow

C. .drop-shadow

D. .shadow-sm

ANSWER: B

511. What Bootstrap class is needed to create a dropdown menu within a navigation bar?

A. dropdown

B. drop-nav

C. navbar-dropdown

D. nav-drop

ANSWER: A

512. Which class combination is used to set text color to primary and background color to secondary in Bootstrap?

A. class="text-primary bg-secondary"

B. class="text-secondary bg-primary"

C. class="primary text bg-secondary"

D. class="bg-primary text-secondary"

ANSWER: A

513. If an element with .text-danger is not displaying red text as expected, what should be checked first?

A. CSS file linkage

B. Font settings

C. Browser compatibility

D. Overriding styles

ANSWER: D

514. Which Bootstrap variable can be adjusted to change the default padding for modals?

A. $modal-margin

B. $modal-spacing

C. $modal-position

D. $modal-padding

ANSWER: D

515. Which model is also called the classic life cycle or the Waterfall model?

A. Iterative Development

B. RAD Model

C. Linear Sequential Development

D. Incremental Development

ANSWER: C

516. What does DOM stand for in web development?

A. Display Object Model

B. Document Object Model

C. Data Object Management

D. Document Object Manipulation

ANSWER: B

517. An entity set that does not have sufficient attributes to form a primary key is a

A. simple entity set.

B. weak entity set.

C. strong entity set.

D. primary entity set.

ANSWER: B

518. What could be the reason for a background image not resizing with its container?

A. The background-size property is set to auto

B. The background-size property is set to cover

C. The background-size property is set to contain

D. The container's size is not defined

ANSWER: A

519. In the architecture of a database system external level is the

A. logical level.

B. physical level.

C. conceptual level.

D. view level.

ANSWER: D

520. If changes to Bootstrap's SCSS variables do not take effect, what is the first thing you should check?

A. File import order

B. SCSS compiler settings

C. Syntax errors

D. All of the above

ANSWER: A

521. Identify the error in this object method:

let obj = {

ques: function() {

return 'What is your, ' + name;

}

};

console.log(obj.ques());

A. Syntax error

B. ques is not a function

C. name is not defined

D. No error

ANSWER: C

522. How do you override the default color palette in Bootstrap using SCSS?

A. Change colors in the CSS file

B. Use !important in CSS

C. Overwrite values in a new file

D. Define new values before importing Bootstrap

ANSWER: D

523. Which CSS function is crucial for adding new utilities with custom properties in Bootstrap?

A. @keyframes

B. @apply

C. @import

D. @extend

ANSWER: B

524. Why might changes in a media query not reflect in a browser?

A. The media query syntax is incorrect

B. The browser cache is outdated

C. The stylesheet link is broken

D. All of the above

ANSWER: D

525. Find the issue in this object definition:

let obj = { '1a': 40, b: 80 };

console.log(obj.1a);

A. Invalid property name

B. Syntax error in console.log

C. Incorrect value assignment

D. No error

ANSWER: B