1. Which of the following is the correct way to create an ordered list in HTML?
   a) Item 1
Item 2
   b) Item 1
Item 2
   c) <list>
Item 1
Item 2
</list>
   d) <ordered><item>Item 1</item><item>Item 2</item></ordered>

2. In HTML5, which attribute is used to automatically focus on an input field when a page loads?
   a) autofocus
   b) default
   c) focused
   d) highlighted

3. You are creating a registration form and need users to choose their birth date. Which HTML element is most appropriate?
   a) <input type="text">
   b) <input type="date">
   c) <input type="password">
   d) <textarea>

4. Which HTML attribute is used to specify alternative text for an image if it cannot be displayed?
   a) alt
   b) title
   c) src
   d) desc

5. Which of the following CSS properties can change the background color of an element?
   a) color
   b) font-color
   c) background-color
   d) background-style

6. Given the following CSS rule, which elements are affected?

```
p.intro { color: blue; }
```

   a) All <p> elements
   b) Only <p> elements with the class "intro"

c) All elements with the class "intro"
d) None of the above

7. Which CSS property is used to make the text bold?
a) text-decoration
b) font-weight
c) font-style
d) font-decoration

8. Which of the following pseudo-classes is used to style an element when a user mouses over it?
a) :hover
b) :focus
c) :active
d) :selected

9. A developer wants to create a navigation menu where all links are underlined only when they are active. Which pseudo-class should they use?
a) :visited
b) :hover
c) :focus
d) :active

10. What is the output of the following JavaScript code?

```
console.log(typeof null);
```

a) "null"
b) "object"
c) "undefined"
d) "string"

11. Which method is used to remove the last element from an array in JavaScript?
a) pop()
b) shift()
c) splice()
d) remove()

12. Given the following code, what will be logged to the console?
let x = [10, 20, 30]; console.log(x[1]);
a) 10

b) 20
c) 30
d) undefined

13. Which statement correctly declares a function in JavaScript?
a) function myFunction() { }
b) declare myFunction() { }
c) myFunction function() { }
d) def myFunction() { }

14. A developer needs to ensure that a variable cannot be reassigned later in the program. Which keyword should they use?
a) var
b) let
c) const
d) assign

15. What is the purpose of isNaN() function in JavaScript?
a) To check if a number is positive
b) To check if a value is a number
c) To check if a value is NaN
d) To check if a number is an integer

16. Which of the following methods is used to create a new Express application?
a) express.createApp()
b) express.startApp()
c) express()
d) new express()

17. In an Express.js application, you need to handle form submissions from the client. Which HTTP method is typically used?
a) GET
b) POST
c) PUT
d) DELETE

18. What is the purpose of res.send() in Express?
a) To send a JSON response
b) To send HTML content

c) To end the response
d) All of the above

19. Given the following route definition, what will be the response for a GET request to /hello?

```
app.get('/hello', (req, res) => {
   res.send("Hello World!");
});
```

a) Displays Hello World!
b) Sends Hello World! in the response
c) Logs Hello World! in the console
d) Throws an error

20. Which of the following middleware functions is used to serve static files in Express?
a) express.static()
b) app.use()
c) static()
d) app.static()

21. Which command is used to display all documents in a MongoDB collection?
a) db.collection.findAll()
b) db.collection.display()
c) db.collection.find()
d) db.collection.show()

22. In MongoDB, you want to update the age of all users with the name "John" to 30. Which method should you use?
a) updateOne
b) updateMany
c) updateAll
d) updateDocument

23. Which MongoDB data type is used to store an array?
a) Array
b) List
c) Set
d) Collection

24. What does the skip() method do in MongoDB queries?
a) Limits the number of documents returned
b) Skips a certain number of documents
c) Deletes the first document
d) Sorts the documents in ascending order

25. In MongoDB, what is the default identifier field in a document?
a) _id
b) id
c) primary_key
d) document_id

26. Which HTML5 element is best suited for displaying videos directly on a webpage?
a) <iframe>
b) <embed>
c) <video>
d) <object>

27. You want to create a webpage with a header, navigation, content section, and footer. Which HTML5 elements would be most appropriate for this layout?
a) <header>, <menu>, <section>, <footer>
b) <header>, <nav>, <article>, <footer>
c) <header>, <nav>, <section>, <footer>
d) <header>, <nav>, , <footer>

28. In HTML, which attribute is used to open a link in a new tab or window?
a) new
b) window
c) target="_blank"
d) link="new"

29. Which CSS property controls the space between an element's content and its border?
a) margin
b) padding
c) border-spacing
d) border-width

30. Given the following CSS rule, which color will the text of elements with the class "highlight" be?

```
.highlight {
    color: red;
    background-color: yellow;
}
```

a) Yellow
b) Red
c) Both red and yellow
d) None of the above

31. Which CSS property is used to create a flexible layout that adjusts to the size of the screen?
a) float
b) flex
c) grid
d) position

32. What is the output of the following JavaScript code?

```
const numbers = [1, 2, 3, 4, 5];
console.log(numbers.map(x => x * 2));
```

a) [2, 4, 6, 8, 10]
b) [1, 4, 9, 16, 25]
c) [1, 2, 3, 4, 5]
d) undefined

33. Which of the following statements creates a promise in JavaScript?
a) let promise = new Promise();
b) let promise = Promise.then();
c) let promise = new Promise((resolve, reject) => {});
d) let promise = Promise();

34. A developer is working on a function that fetches user data from an API. They want to handle errors if the API call fails. Which of the following code snippets demonstrates the correct way to handle errors?

```
fetch('https://api.example.com/user')
```

```
    .then(response => response.json())
    .then(data => console.log(data))
    .catch(error => console.error(error));
```

a) Correct
b) Incorrect, the .catch() block is missing
c) Incorrect, response.json() should be in the .catch() block
d) Incorrect, fetch cannot handle errors

35. Which of the following code snippets is used to parse incoming request bodies in Express?
a) app.use(express.bodyParser())
b) app.use(express.urlencoded({ extended: true }))
c) app.use(express.json())
d) Both b and c

36. In an Express application, you want to set a cookie when a user visits the site. Which of the following code snippets is correct?

```
app.get('/', (req, res) => {
  res.cookie('username', 'JohnDoe');
  res.send('Welcome!');
});
```

a) Correct
b) Incorrect, cookie() should be cookies()
c) Incorrect, res.cookie should be req.cookie
d) Incorrect, cookies cannot be set this way in Express

37. Which method is used in Express to handle 404 errors?
a) app.use(404)
b) app.get(404)
c) app.use((req, res) => res.status(404).send('Not Found'))
d) app.error(404)

38. Which of the following commands deletes all documents in a MongoDB collection?
a) db.collection.removeAll()
b) db.collection.drop()
c) db.collection.deleteMany({})
d) db.collection.remove({ all: true })

39. A MongoDB database is set up to store data for an e-commerce website. Each document in the products collection has fields for product name, price, category, and stock count. Which query would retrieve all products with a price less than $100?

```
db.products.find({ price: { $lt: 100 } })
```

a) Correct
b) Incorrect, the $lt operator should be $gt
c) Incorrect, it should be { price: 100 }
d) Incorrect, it should be { price: { $lte: 100 } }

40. In MongoDB, which in which format documents are stored.
a) BSON
b) JSON
c) DSON
d) BJSON