



BRAINWARE UNIVERSITY

Course – MAMW

Advance Web Development (MMW401B)

(Semester – 4)

Time allotted: 3 Hours

Full Marks : 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group –A

(Multiple Choice Type Questions)

10 x 1 = 10

1. *Choose the correct alternative from the following*

- (i) Which of the following command removes a single document that matches the condition that Author is Joe?
- | | |
|--|--|
| a. <code>db.posts.removeOne({ Author : "Joe" }, 1)</code> | b. <code>db.posts.remove({ Author : "Joe" }, 1)</code> |
| c. <code>db.posts.remove({ Author : "Joe" }, {justOne: true})</code> | d. Both b and c |
- (ii) What does the 301 server response code signify?
- | | |
|--------------------------------|--|
| a. Not Modified | b. Moved Permanently |
| c. Syntax error in the request | d. The request must be authorized before it can take place |
- (iii) Which of the following statements is correct with regard to natural links?
- | | |
|--|--|
| a. They are two way links (reciprocal links) | b. They are from authority websites |
| c. They are voluntary in nature | d. They are from .edu or .gov extension websites |

- (iv) Which of the following is not considered as an error in JavaScript?
- a. Syntax error
 - b. Missing of semicolons
 - c. Division by zero
 - d. All of the mentioned
- (v) Assume that we have to convert “false” that is a non-string to string. The command that we use is (without invoking the “new” operator)
- a. false.toString()
 - b. String(false)
 - c. String newvariable=”false”
 - d. Both false.toString() and String(false)
- (vi) What will be the output of the following?
- ```
let x, { x: y = 1 } = { x }; y;
```
- a. undefined
  - b. 1
  - c. { x: 1 }
  - d. Error
- (vii) How is everything treated in HTML DOM?
- a. Node
  - b. Attributes
  - c. Elements
  - d. All of the mentioned
- (viii) Point out the wrong statement
- a. Indexes cannot enforce uniqueness in collection
  - b. CRUD stands for create, read, update, and delete
  - c. CRUD application is the most simplest application
  - d. All of the mentioned
- (ix) Which object is the top of the hierarchy?
- a. Window Object
  - b. Document Object
  - c. Form Object
  - d. Form Control Elements

- (x) MongoDB stores all documents in
- a. tables
  - b. collections
  - c. rows
  - d. all of the mentioned

### Group – B

(Short Answer Type Questions)

3 x 5 = 15

Answer any *three* from the following

2. Explain MongoDB query with an 'or' condition [5]
3. How Limit to the size of MongoDB database is implemented? [5]
4. What is the good way to get a list of all unique tags? [5]
5. Explain Module in ES6 [5]
6. Explain Changing CSS, using JavaScript HTML DOM [5]

### Group – C

(Long Answer Type Questions)

3 x 15 = 45

Answer any *three* from the following

7. (a) What do you understand by NoSQL databases? Is MongoDB a NoSQL database? Explain. [8]
- (b) What are the disadvantages of MongoDB? [7]
8. (a) What is SEO? Explain it with a real life example. [8]
- (b) Explain MediaStream / getUserMedia. [7]
9. (a) Elucidate: Stream video with RTCPeerConnection. [8]
- (b) How can you create a repository in Git? [3]
- (c) What is a commit message? Explain. [4]
10. (a) What is the difference between MongoDB and MySQL? [6]
- (b) What is 'localStorage' in JS? Explain its usage with an example. [5]
- (c) What is Git stash? [4]

- 11. (a) What is difference between Bitbucket and Sourcetree? [2]
- (b) What is the difference between Git and SVN? [2]
- (c) Explain how to optimize a Web Page for faster loading. [6]
- (d) Explain the working principle of WebRTC system. [5]