

Multiple Choice Questions (20 Marks)

MongoDB (5 Questions)

1. What does MongoDB store data as?

- A. Tables
- B. Collections
- C. JSON
- D. Rows

2. What is the default port for MongoDB?

- A. 3000
- B. 3306
- C. 27017
- D. 8080

3. Which command is used to insert a document into a collection in MongoDB?

- A. `db.collection.add()`
- B. `db.collection.insertOne()`
- C. `db.collection.create()`
- D. `db.collection.push()`

4. What is a replica set in MongoDB?

- A. A way to back up data
- B. A set of queries
- C. A group of nodes that maintain the same data for redundancy

D. A schema for storing data

5. Which of the following is used to query documents in MongoDB?

A. find()

B. query()

C. search()

D. get()

6. What does REST stand for?

A. Reliable State Transfer

B. Representational State Transfer

C. Remote State Transfer

D. Resource State Transfer

7. Which HTTP method is typically used to update a resource in REST?

A. GET

B. POST

C. PUT

D. DELETE

8. What is the status code for a successful POST request?

A. 200

B. 201

C. 400

D. 404

9. What does a REST API use to identify resources?

A. URI

B. URL

C. IP

D. JSON

10. Which header specifies the format of data sent in a REST API request?

A. Authorization

- B. Content-Type
- C. Accept
- D. Cache-Control

11. What is Node.js?

- A. A backend framework
- B. A JavaScript runtime environment
- C. A frontend library
- D. A database

12. Which module is used to create an HTTP server in Node.js?

- A. http
- B. fs
- C. express
- D. path

13. What is the default file extension for Node.js modules?

- A. .mod
- B. .node
- C. .js
- D. .json

14. Which of the following is a built-in module in Node.js?

- A. mongoose
- B. http
- C. axios
- D. express

15. Which command initializes a Node.js project?

- A. node init
- B. npm start
- C. npm init
- D. node start

16. What is Express.js?

- A. A JavaScript library
- B. A framework for Node.js
- C. A frontend framework

D. A template engine

17. Which method is used to define a GET route in Express.js?

- A. `app.route()`
- B. `app.use()`
- C. `app.get()`
- D. `app.path()`

18. Which middleware is used to parse JSON bodies in Express.js?

- A. `body-parser`
- B. `express.json()`
- C. `parse-json`
- D. `http-parser`

19. Which method is used to listen for requests in an Express.js app?

- A. `app.run()`
- B. `app.start()`
- C. `app.listen()`
- D. `app.server()`

20. What is the default port for an Express.js application?

- A. 80
- B. 3000
- C. 8080
- D. 27017

Practical Questions (30 Marks)

1. (10 Marks)

- Create a MongoDB collection named `students` with fields `name`, `age`, and `grade`. Insert the following records:
 - Name: John, Age: 20, Grade: A
 - Name: Sarah, Age: 22, Grade: B
 - Name: Mike, Age: 19, Grade: A

- Query all students with a grade of A.

2. (10 Marks)

- Build a simple REST API using Express.js that includes:
 - A GET route to fetch all items from a hardcoded array of objects.
 - A POST route to add a new item to the array.
 - Example object structure: `{ id: 1, name: 'Item1', price: 100 }`.

3. (10 Marks)

- Create a simple express js server which show “server is listening”.