**Node.js & Express.js MCQs**

1. **What is Node.js?**  
   A) A programming language  
   B) A runtime environment  
   C) A framework  
   D) A database system
2. **Which of the following is true about Node.js?**  
   A) It is single-threaded  
   B) It uses multiple threads for processing  
   C) It is a database  
   D) It cannot handle multiple requests at once
3. **Which module is used to create a server in Node.js?**  
   A) express  
   B) fs  
   C) http  
   D) url
4. **Which of the following is NOT a core module of Node.js?**  
   A) fs  
   B) http  
   C) express  
   D) path
5. **What is Express.js used for?**  
   A) Managing database connections  
   B) Building a user interface  
   C) Building web applications and APIs  
   D) Managing HTTP requests only
6. **Which of the following is the correct way to install Express.js?**  
   A) npm install express  
   B) npm install express.js  
   C) node install express  
   D) npm install express-server
7. **Which method is used to define a route for GET requests in Express?**  
   A) app.get()  
   B) app.post()  
   C) app.put()  
   D) app.delete()
8. **In Node.js, the package manager used is:**  
   A) pip  
   B) npm  
   C) gem  
   D) yarn
9. **Which of the following is NOT a valid HTTP method in Express?**  
   A) GET  
   B) POST  
   C) PUT  
   D) CREATE
10. **How do you handle errors in Express?**  
    A) Using try-catch blocks  
    B) Using app.use() with error-handling middleware  
    C) By throwing errors  
    D) By setting error messages manually
11. **Which function is used to start a server in Express?**  
    A) app.listen()  
    B) app.start()  
    C) http.listen()  
    D) server.start()
12. **Which command initializes a new Node.js project?**  
    A) node init  
    B) npm init  
    C) npm create  
    D) node create
13. **What is the default port for Express applications?**  
    A) 8080  
    B) 3000  
    C) 5000  
    D) 4000
14. **Which of the following methods is used to define a route for POST requests in Express?**  
    A) app.get()  
    B) app.post()  
    C) app.put()  
    D) app.route()
15. **Which of the following is a templating engine used with Express?**  
    A) EJS  
    B) MySQL  
    C) MongoDB  
    D) SQL
16. **Which of the following is used to serve static files in Express?**  
    A) express.static()  
    B) express.staticFiles()  
    C) static()  
    D) express.serve()
17. **How can you parse URL-encoded data in Express?**  
    A) app.json()  
    B) app.urlencoded()  
    C) express.urlencoded()  
    D) bodyParser.urlencoded()
18. **Which of the following is used to parse JSON bodies in Express?**  
    A) express.json()  
    B) app.json()  
    C) bodyParser.json()  
    D) JSON.parse()
19. **Which module is used for working with file systems in Node.js?**  
    A) os  
    B) fs  
    C) path  
    D) http
20. **What is the main event loop in Node.js responsible for?**  
    A) Parsing HTTP requests  
    B) Handling file system operations  
    C) Managing asynchronous callbacks  
    D) Serving static files
21. **Which of the following is true about Express middleware?**  
    A) It executes only after the route has been matched  
    B) It is executed before the route is matched  
    C) It handles HTTP requests  
    D) It is not necessary in Express
22. **What does the 'next' function do in Express middleware?**  
    A) It ends the response  
    B) It moves to the next middleware function  
    C) It sends an HTTP response  
    D) It closes the server
23. **Which of the following is used to handle routing in Express?**  
    A) express.Router()  
    B) express.Route()  
    C) express.Http()  
    D) express.Request()
24. **How can you make your Express application handle all HTTP verbs (GET, POST, etc.) on the same route?**  
    A) Use app.all()  
    B) Use app.method() for each HTTP verb  
    C) Use express.Router()  
    D) Use app.listen()
25. **Which of the following is true about Node.js and Express?**  
    A) Express is built on top of Node.js  
    B) Node.js is built on top of Express  
    C) Express is a language that works with Node.js  
    D) They are unrelated technologies
26. **Which of the following helps you handle asynchronous code in Node.js?**  
    A) Promises  
    B) Callbacks  
    C) async/await  
    D) All of the above
27. **How do you install a package globally using npm?**  
    A) npm install -g   
    B) npm install   
    C) npm global install   
    D) npm install --global
28. **Which method is used to send a response in Express?**  
    A) res.send()  
    B) res.write()  
    C) res.end()  
    D) res.sendFile()
29. **Which of the following is the correct format for importing Express in Node.js?**  
    A) var express = require('express');  
    B) import express from 'express';  
    C) const express = import('express');  
    D) express.require();
30. **What does 'npm start' do in a Node.js application?**  
    A) Starts the Node.js application using the entry script defined in package.json  
    B) Installs dependencies  
    C) Starts the web server  
    D) Initializes a new Node.js project
31. **How can you define environment variables in Node.js?**  
    A) process.env  
    B) config.env  
    C) app.env  
    D) var.env
32. **Which of the following is the main benefit of Node.js?**  
    A) It is fast for I/O bound applications  
    B) It is good for CPU intensive applications  
    C) It is built specifically for web scraping  
    D) It is useful for database management
33. **How can you listen for a specific HTTP port in Express?**  
    A) app.listen(3000);  
    B) server.listen(3000);  
    C) app.port(3000);  
    D) express.listen(3000);
34. **What is the purpose of the bodyParser middleware in Express?**  
    A) To parse request headers  
    B) To parse the body of HTTP requests  
    C) To parse query parameters  
    D) To parse response bodies
35. **Which of the following is a database driver for MongoDB in Node.js?**  
    A) mongoose  
    B) sequelize  
    C) knex  
    D) redis
36. **Which of the following is used to prevent cross-origin resource sharing (CORS) in an Express application?**  
    A) cors() middleware  
    B) express-cors()  
    C) allow-cors()  
    D) app.disable('CORS')
37. **Which of the following are valid route parameters in Express?**  
    A) req.params  
    B) req.query  
    C) req.body  
    D) All of the above
38. **How do you serve dynamic data to a template engine like EJS in Express?**  
    A) app.set('view engine', 'ejs');  
    B) res.render('viewName', data);  
    C) res.send('viewName', data);  
    D) Both A and B
39. **Which method in Node.js is used to create a new file?**  
    A) fs.createFile()  
    B) fs.writeFile()  
    C) fs.newFile()  
    D) fs.create()
40. **How do you handle GET request parameters in Express?**  
    A) req.body  
    B) req.query  
    C) req.params  
    D) req.method
41. **How would you handle HTTP errors in Express?**  
    A) By using next() with an error object  
    B) By throwing errors manually  
    C) By using try-catch blocks  
    D) All of the above
42. **Which of the following is the correct way to use middleware in Express?**  
    A) app.use();  
    B) app.middleware();  
    C) express.use();  
    D) app.route();
43. **What does the "require" keyword do in Node.js?**  
    A) It loads and imports modules  
    B) It imports only functions from a module  
    C) It loads files dynamically  
    D) It imports HTML files
44. **Which is the correct way to create an instance of the Express application?**  
    A) const app = express();  
    B) const app = new express();  
    C) const app = express.create();  
    D) const app = expressServer();
45. **Which method in Express is used to send a JSON response?**  
    A) res.send()  
    B) res.json()  
    C) res.write()  
    D) res.text()
46. **Which of the following is a tool for debugging Node.js applications?**  
    A) nodemon  
    B) node-inspect  
    C) debugger  
    D) All of the above
47. **Which of the following is an asynchronous method in Node.js?**  
    A) fs.readFile()  
    B) fs.open()  
    C) fs.rename()  
    D) fs.copy()
48. **Which of the following is true about JavaScript in Node.js?**  
    A) It is used to create the application logic  
    B) It is used to handle HTTP requests only  
    C) It cannot interact with databases  
    D) It is not needed in Node.js
49. **Which command is used to run a Node.js file from the terminal?**  
    A) node run   
    B) npm run   
    C) node   
    D) node start
50. **What is the purpose of 'require' in Node.js?**  
    A) To import Node.js modules  
    B) To include other files into your application  
    C) To load external libraries  
    D) All of the above

**Answers:**

1. B) A runtime environment
2. A) It is single-threaded
3. C) http
4. C) express
5. C) Building web applications and APIs
6. A) npm install express
7. A) app.get()
8. B) npm
9. D) CREATE
10. B) Using app.use() with error-handling middleware
11. A) app.listen()
12. B) npm init
13. B) 3000
14. B) app.post()
15. A) EJS
16. A) express.static()
17. C) express.urlencoded()
18. A) express.json()
19. B) fs
20. C) Managing asynchronous callbacks
21. B) It is executed before the route is matched
22. B) It moves to the next middleware function
23. A) express.Router()
24. A) Use app.all()
25. A) Express is built on top of Node.js
26. D) All of the above
27. A) npm install -g
28. A) res.send()
29. A) var express = require('express');
30. A) Starts the Node.js application using the entry script defined in package.json
31. A) process.env
32. A) It is fast for I/O bound applications
33. A) app.listen(3000);
34. B) To parse the body of HTTP requests
35. A) mongoose
36. A) cors() middleware
37. D) All of the above
38. D) Both A and B
39. B) fs.writeFile()
40. B) req.query
41. D) All of the above
42. A) app.use();
43. A) It loads and imports modules
44. A) const app = express();
45. B) res.json()
46. D) All of the above
47. A) fs.readFile()
48. A) It is used to create the application logic
49. C) node
50. D) All of the above