

1. An e-commerce site needs a central component to run order-processing code and enforce business rules. Which server type should handle this?
 - a) Web server
 - b) FTP server
 - c) Application server
 - d) Proxy server
 - e) Game server**Answer:** c) Application server
2. A photo-sharing app wants to let users download and upload image files directly. Which protocol and server pair is most appropriate?
 - a) HTTP + Web server
 - b) FTP + FTP server
 - c) SMTP + Mail server
 - d) SSH + Proxy server
 - e) HTTPS + Auth server**Answer:** b) FTP + FTP server
3. To secure user logins and permissions for a web portal, which server role should you deploy?
 - a) Game server
 - b) Proxy server
 - c) Auth server
 - d) FTP server
 - e) Database server**Answer:** c) Auth server (*handles authentication/authorization*)
4. A company wants to cache and filter incoming web requests before they reach the origin servers. Which server should they place in front?
 - a) Web server
 - b) Application server
 - c) Proxy server
 - d) Game server
 - e) Auth server**Answer:** c) Proxy server (*intermediary for requests*)
5. A multiplayer online game requires a server optimized for low-latency state updates between many clients. What server type is ideal?
 - a) Web server
 - b) FTP server
 - c) Application server
 - d) Game server
 - e) SMTP server**Answer:** d) Game server (*runs game logic*)
6. A peer-to-peer file-sharing app wants to eliminate centralized servers. Which architecture should it adopt?
 - a) Client-server
 - b) Three-tier
 - c) Peer-to-peer
 - d) Microservices
 - e) Proxy**Answer:** c) Peer-to-peer
7. A browser issues a URL and waits for a response without maintaining any session state. Which protocol behavior is this?
 - a) Stateful, connection-oriented
 - b) Stateless, connectionless
 - c) Stateful, connectionless
 - d) Stateless, connection-oriented
 - e) Persistent, secure**Answer:** b) Stateless, connectionless
8. An API request to GET /users returns status "404 Not Found." What does this mean?
 - a) Server error processing request
 - b) Resource not found on server
 - c) Request redirected permanently
 - d) Authentication required
 - e) Method not allowed**Answer:** b) Resource not found on server (*404 means not found*)
9. You need to encrypt web traffic to protect users' credit-card data in transit. Which URL scheme ensures encryption?
 - a) http://...
 - b) ftp://...
 - c) smtp://...
 - d) https://...

e) file://...

Answer: d) https://... (*encrypted HTTP*)

10. A content delivery network (CDN) fetches static assets from the origin and serves them closer to users. Which server type is the CDN edge?

- a) DNS server
- b) Application server
- c) Web server
- d) Auth server
- e) Game server

Answer: c) Web server (*serves static files over HTTP*)

11. You need to collect a user's email and password without showing them in the URL. Which form method and input types do you use?

- a) method="get", <input type="text">
- b) method="post", <input type="email"> & <input type="password">
- c) method="get", <input type="email"> & <input type="password">
- d) method="post", <input type="text">
- e) method="put", <input type="email">

Answer: b) method="post", <input type="email"> & <input type="password">

12. A registration page needs a dropdown for country selection. Which tag pair should you use?

- a) <input type="select">
- b) <textarea>
- c) <select>...<option>...
- d) <datalist>...<input>
- e) <menu>...

Answer: c) <select>...<option>...

13. You want to label table headers differently from table data. Which HTML tags do you use?

- a) <thead> & <tbody>
- b) <tr> & <td>
- c) <th> & <td>
- d) <tr> & <th>
- e) <header> & <row>

Answer: c) <th> & <td>

14. A data report groups rows under multiple sections within one table. Which tag wraps each section?

- a) <thead>
- b) <tfoot>
- c) <tbody>
- d) <trgroup>
- e) <section>

Answer: c) <tbody>

15. A form must upload a file and include text data. Which enctype attribute do you set on <form>?

- a) application/x-www-form-urlencoded
- b) multipart/form-data
- c) text/plain
- d) application/json
- e) text/html

Answer: b) multipart/form-data

16. You need a single-line text input that only accepts numeric values. Which <input> type is best?

- a) type="text"
- b) type="number"
- c) type="digit"
- d) type="range"
- e) type="tel"

Answer: b) type="number"

17. For a survey question where users can pick multiple options, which input type should you use?

- a) radio
- b) checkbox
- c) select-multiple
- d) range
- e) file

Answer: b) checkbox

18. You want to provide a multiline comment box in a form. Which element do you choose?

- a) <input type="textarea">
- b) <textarea>
- c) <input type="text">
- d) <comment>

e) <multitext>

Answer: b) <textarea>

19. A form includes a hidden CSRF token. Which <input> type stores invisible data?

- a) text
- b) hidden
- c) password
- d) email
- e) file

Answer: b) hidden

20. You need to group related inputs (name, email, age) visually and semantically. Which tag should you use?

- a) <div>
- b)
- c) <fieldset>
- d) <section>
- e) <form>

Answer: c) <fieldset> (*groups form controls*)

21. You have a new project folder and want to start version control there. Which command initializes Git?

- a) git clone .
- b) git init
- c) git start
- d) git new
- e) git create

Answer: b) git init

22. To bring down a teammate's remote repository copy to your local machine, which do you run?

- a) git pull
- b) git fetch
- c) git clone <url>
- d) git copy <url>
- e) git download

Answer: c) git clone <url>

23. After editing files, you want to stage all changes. Which command do you use?

- a) git commit -a
- b) git add .
- c) git stage .
- d) git push
- e) git diff

Answer: b) git add .

24. You're ready to save staged changes with a message. Which command?

- a) git commit -m "msg"
- b) git save -m "msg"
- c) git push -m "msg"
- d) git log -m "msg"
- e) git record -m "msg"

Answer: a) git commit -m "msg"

25. To see what's changed but not yet staged, which command shows the diff?

- a) git status
- b) git diff
- c) git log
- d) git show
- e) git changes

Answer: b) git diff

26. A teammate has pushed commits; to integrate them into your branch, which do you run?

- a) git fetch
- b) git pull
- c) git push
- d) git merge
- e) git rebase

Answer: b) git pull

27. You want to push your local feature branch to GitHub's origin. Which command?

- a) git push origin feature
- b) git push feature origin
- c) git upload feature
- d) git send feature
- e) git publish feature

Answer: a) git push origin feature

28. To create and switch to a new branch hotfix, what's the quickest command?
- a) git branch hotfix; git checkout hotfix
 - b) git checkout -b hotfix
 - c) git new-branch hotfix
 - d) git switch hotfix
 - e) git create hotfix
- Answer:** b) git checkout -b hotfix
29. You need to show a concise graph of branch history. Which command helps?
- a) git log --graph --oneline --all
 - b) git history --graph
 - c) git graph
 - d) git show --branches
 - e) git visualize
- Answer:** a) git log --graph --oneline --all
30. To ignore compiled files like .o or .class, which file should you create?
- a) .gitconfig
 - b) .gitignore
 - c) ignore.txt
 - d) .gitsettings
 - e) gitignore.md
- Answer:** b) .gitignore
31. You need to apply a red border to all <p> elements without editing HTML. Which selector and property do you use?
- a) .p { border: 1px solid red; }
 - b) p { border: 1px solid red; }
 - c) #p { border: 1px solid red; }
 - d) * { border: 1px solid red; }
 - e) all p { border: 1px solid red; }
- Answer:** b) p { border: 1px solid red; }
32. To ensure every page element is center-aligned in one rule, which selector is best?
- a) html
 - b) body
 - c) *
 - d) .center
 - e) :root
- Answer:** c) *
33. You want a site-wide stylesheet kept in styles.css. How do you link it in HTML?
- a) <style src="styles.css">
 - b) <link rel="stylesheet" href="styles.css">
 - c) <script src="styles.css">
 - d) <import href="styles.css">
 - e) <css href="styles.css">
- Answer:** b) <link rel="stylesheet" href="styles.css">
34. A headline must stand out only on one page. You add CSS inside <head>. Which insertion type is this?
- a) Inline CSS
 - b) Internal CSS
 - c) External CSS
 - d) Imported CSS
 - e) Embedded CSS
- Answer:** b) Internal CSS
35. You need a button to not affect document flow but maintain width/height. Which display value?
- a) block
 - b) inline
 - c) inline-block
 - d) none
 - e) flex
- Answer:** c) inline-block
36. A tooltip must appear above other elements. Which property tweaks stacking order?
- a) display
 - b) z-index
 - c) order
 - d) stack
 - e) layer
- Answer:** b) z-index
37. Content spilling outside a fixed-width box should be hidden without scrollbars. Which overflow setting?
- a) visible
 - b) hidden

- c) scroll
- d) auto
- e) clip

Answer: b) hidden

38. To pin a navbar at the top even when scrolling, which position value do you use?

- a) absolute
- b) relative
- c) fixed
- d) static
- e) sticky

Answer: c) fixed

39. An element should act normally until scrolled beyond then stick to top. Which position?

- a) fixed
- b) absolute
- c) relative
- d) sticky
- e) static

Answer: d) sticky

40. You want a 20 px gap outside a <div> border but no gap inside. Which properties?

- a) padding:20px;
- b) margin:20px;
- c) border:20px solid;
- d) outline:20px solid;
- e) gap:20px;

Answer: b) margin:20px;