Internet & Web Technologies Interview Questions

1. Basics of Internet & Web Technologies

1. What is the Internet?

2. What is the difference between the Internet and the World Wide Web (WWW)?

3. What are the basic requirements to access the Internet?

4. What is a web browser? Name some popular web browsers.

5. What is a URL (Uniform Resource Locator)?

6. What is HTTP and HTTPS?

7. What is the difference between HTTP and HTTPS?

8. What are HTML, CSS, and JavaScript?

9. What is a web server?

10. What is a domain name?

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2. Networking & Internet Protocols

11. What is an IP address?

12. What is the difference between IPv4 and IPv6?

13. What is DNS (Domain Name System)?

14. What is the difference between a static IP and a dynamic IP?

15. What is a MAC address?

16. What is the role of a modem and a router?

17. What is a firewall in networking?

18. What is FTP (File Transfer Protocol)?

19. What is the difference between TCP and UDP?

20. What is VPN (Virtual Private Network)?

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3. Web Designing Basics

21. What is web designing?

22. What are the main components of web design?

23. What is the difference between UX (User Experience) and UI (User Interface) design?

24. What are responsive and adaptive web designs?

25. What is the importance of wireframing in web design?

26. **What is a CMS (Content Management System)? Give examples.**

27. **What are the advantages of using templates in web design?**

28. **What is a favicon?**

29. **What is a landing page?**

30. **What are the common types of websites (Static, Dynamic, E-commerce, etc.)?**

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4. HTML (HyperText Markup Language)

31. **What is HTML?**

32. **What is the difference between HTML and XHTML?**

33. **What are the main HTML tags?**

34. **What is the difference between block-level and inline elements?**

35. **What is the <DOCTYPE> declaration?**

36. **What are HTML attributes?**

37. **What is the difference between <div> and <span>?**

38. **What is semantic HTML?**

39. **What are meta tags in HTML?**

40. **What is the difference between <section>, <article>, and <aside>?**

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5. CSS (Cascading Style Sheets)

41. **What is CSS?**

42. **What are the different types of CSS?**

43. **What is the difference between inline, internal, and external CSS?**

44. **What is the box model in CSS?**

45. **What is the difference between relative, absolute, and fixed positioning in CSS?**

46. **What is a pseudo-class in CSS?**

47. **What are media queries in CSS?**

48. **What is the difference between em, rem, %, and px in CSS?**

49. **What is flexbox in CSS?**

50. **What is CSS Grid, and how is it different from flexbox?**

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6. JavaScript Basics

    51. What is JavaScript?

    52. What is the difference between JavaScript and Java?

    53. What are JavaScript variables?

    54. What are JavaScript data types?

    55. What is the difference between var, let, and const?

    56. What is an event in JavaScript?

    57. What is the Document Object Model (DOM)?

    58. What is an array in JavaScript?

    59. What are functions in JavaScript?

    60. What is the difference between synchronous and asynchronous programming?

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7. Web Hosting & Domain Names

    61. What is web hosting?

    62. What are the types of web hosting (Shared, VPS, Dedicated, Cloud)?

    63. What is a domain registrar?

    64. What is the difference between a domain name and a hosting server?

    65. What is the difference between a subdomain and a parked domain?

    66. What is a CDN (Content Delivery Network)?

    67. What is SSL (Secure Sockets Layer)?

    68. What is caching in web development?

    69. What is an FTP client?

    70. What is website bandwidth?

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8. SEO (Search Engine Optimization)

    71. What is SEO?

    72. What is on-page and off-page SEO?

    73. What is a sitemap?

    74. What is the role of meta tags in SEO?

    75. What is keyword research?

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76. **What is a backlink?**

77. **What are alt tags in images?**

78. **What is Google PageRank?**

79. **What are some SEO best practices for web design?**

80. **What is mobile-first indexing?**

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9. Web Accessibility & Performance Optimization

81. **What is web accessibility?**

82. **What is ARIA (Accessible Rich Internet Applications)?**

83. **What are some best practices for designing accessible websites?**

84. **What are lazy loading and eager loading?**

85. **What is minification in web development?**

86. **How do you optimize images for the web?**

87. **What are web fonts, and how do they impact performance?**

88. **What is the impact of JavaScript on page load time?**

89. **What is a lighthouse in web performance testing?**

90. **How do you improve website speed?**

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10. Future Trends in Web Development

91. **What is progressive web app (PWA)?**

92. **What is a single-page application (SPA)?**

93. **What is WebAssembly?**

94. **What are microservices in web development?**

95. **What is headless CMS?**

96. **What are AI-powered chatbots, and how do they work?**

97. **What is the role of blockchain in web security?**

98. **What is the difference between Web 2.0 and Web 3.0?**

99. **What are serverless functions in web development?**

100. **How does voice search impact web design?**