P-301 INTERNET AND WEB RESOURCES

LONG QUESTIONS:

1. What are the fundamental differences between the internet and the World Wide Web (WWW), and how do they work together to provide information and connectivity globally?
2. How has the evolution of the internet from Web 1.0 to Web 2.0 and now to Web 3.0 transformed the way we access and interact with online information and services?
3. What are the key components of a web address (URL), and how can users decipher and analyze URLs to determine the reliability and authenticity of web resources?
4. Explain the concept of net neutrality and its significance in ensuring equal access to online content and preventing internet service providers from discriminating against certain websites or services.
5. How do search engines like Google index and rank web pages, and what strategies can website owners employ to improve their visibility and search engine optimization (SEO)?
6. What are the ethical considerations and challenges related to online privacy, data collection, and surveillance in the age of the internet, and how can individuals protect their digital identities and information?
7. Describe the role of web browsers in accessing and navigating the internet, and discuss the various browser features and extensions that enhance the user experience.
8. What are cookies, and how do they impact user privacy and online tracking? Explain the differences between first-party and third-party cookies and their uses.
9. Discuss the principles and best practices of website usability and user experience (UX) design, emphasizing the importance of responsive web design and accessibility.
10. Examine the challenges and benefits of online collaboration tools, such as cloud-based document sharing, virtual meetings, and project management software, in enhancing productivity and communication in various sectors.
11. How do web-based content management systems (CMS) like WordPress and Drupal facilitate website creation, maintenance, and customization for individuals and organizations?
12. Explain the concept of web hosting, including the different types of hosting services available and the factors to consider when selecting a web hosting provider for a website.
13. What are the security risks and common threats associated with online activities, and how can users and organizations protect themselves against cyberattacks, phishing, and malware?
14. Discuss the significance of open educational resources (OER) and massive open online courses (MOOCs) in expanding access to education and knowledge globally.
15. How has social media transformed communication and information dissemination on the web, and what are the implications of social media for privacy, fake news, and digital citizenship?
16. Examine the impact of e-commerce on traditional retail businesses, including the advantages and challenges of online shopping, digital marketing strategies, and the role of customer reviews.
17. Discuss the concept of the Internet of Things (IoT) and its potential applications in various industries, as well as the security and privacy concerns associated with IoT devices.

18. What is the Deep Web, and how does it differ from the Surface Web? Explore the significance of the Deep Web in the context of online research and information retrieval.
19. Describe the role of online forums, social networks, and online communities in facilitating knowledge sharing, support, and networking among individuals with common interests or goals.
20. Examine the challenges of digital divide and digital literacy, and discuss strategies and initiatives aimed at bridging the gap and promoting equitable access to internet and web resources worldwide.
21. Explain the concept of cloud computing and its fundamental principles. How does it differ from traditional computing models, and what are the key advantages of adopting cloud services for businesses and individuals?
22. Describe the various service models in cloud computing, including Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). Provide examples of each and discuss their respective benefits and use cases

SHORT QUESTIONS:

1. What does URL stand for?
2. What is the internet?
3. What is the World Wide Web?
4. Define HTTP and HTTPS.
5. How does a web browser work?
6. What is a DNS server, and what is its role?
7. Explain the purpose of an IP address.
8. What is a search engine, and how does it work?
9. Define phishing and its risks.
10. What is a cookie in web browsing?
11. What does HTML stand for?
12. Describe the purpose of a firewall.
13. What is net neutrality?
14. Explain the concept of bandwidth.
15. What is a plugin in the context of web browsers?
16. Define metadata on the web.
17. What is the purpose of a web server?
18. How does encryption enhance web security?
19. What is a URL shortener, and why is it used?
20. Describe the difference between HTTP and FTP.
21. What is the significance of responsive web design?
22. What does CMS stand for in web development?
23. What are CAPTCHA tests, and why are they used online?
24. What is a cache in web browsing?
25. Explain the concept of the Deep Web.
26. What is a VPN, and why is it used?
27. How does a modem facilitate internet connectivity?
28. Define the term "cybersecurity."

29. What is a social media platform?
30. WEB 2.0?
31. Cloud Computing?