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| **Support information Q5.1~Q5.10** | |
| Q5.1. Discuss copyright and intellectual property requirements applicable to designing web layouts. | <https://www.motocms.com/blog/en/intellectual-property-in-web-development/>  Intellectual properties of a website, such as design, codes, logo, images, hypertext links, domain name,  What should be covered in a contract between client and developer. |
| Q5.2. Discuss the role and responsibility of customer and business liaison that is applicable to designing website layouts. | <https://www.roberthalf.com.au/employers/it-technology/web-designer-jobs>  The key knowledge/skill required by liaison.  With whom a liaison need to communicate.  Why not let the developer talk to the client directly. |
| Q5.3. Discuss webpage design principles related to different internet connectivity impacts. | Different internet connectivity   * High speed / low speed * Unlimited data / limited data   Design principles   * Using images (different size) * Using videos (different quality) * Loading content (load partial content or full content) |
| Q5.4. Identify at least two pages load times measurement tools. | Search for “web pages load times measurement tools” |
| Q5.5. Explain technical specifications procedures and documentation procedures. Please discuss the procedure of creating the following specification and documentation.  - Website structure diagram  - Wireframes  - Colour scheme  - Graphic design | Website structure diagram  <https://nomiscomwebdesign.eu/how-to-plan-a-website-structure/>  Wireframes  <https://careerfoundry.com/en/blog/ux-design/how-to-create-your-first-wireframe/>  Colour Scheme  <https://www.websitebuilderexpert.com/designing-websites/how-to-choose-color-for-your-website/>  Graphic design  <https://www.webfx.com/blog/web-design/create-a-clean-and-professional-web-design-in-photoshop/> |
| Q5.6. Discuss standards applicable to website design. Discuss the standards or best practices for the following topics:  1. Consistent branding.  2. Clear CTAs  3. Intuitive navigation  4. Clean design  5. Storytelling  6. Visuals  7. Mobile-first design  8. Accessibility  9. Prioritize search engine optimization (SEO)  10. Monitor site speed  11. Heatmaps  12. A/B Testing | <https://tillerdigital.com/blog/12-web-design-best-practices-for-2021/> |
| Q5.7. Discuss website design methods and standard website structures.   * For website design methods, you are required to discuss waterfall and agile methodology. * For website structures, you are required to discuss hierarchical, sequential, and matrix structure | <https://www.adcisolutions.com/knowledge/web-development-methodologies-and-approaches>  discuss waterfall and agile  <https://www.usability.gov/how-to-and-tools/methods/organization-structures.html>  discuss Hierarchical, Sequential, and Matrix |
| Q5.8. Discuss design and cyber security procedures and protocols.  Refer to the SANS checklist and discuss at least three of the following cyber security items  <https://www.sans.org/white-papers/1389/>  - Risk Assessment  - Authentication  - Authorization and Access Control  - Session Management  - Data and InPut Validation  - Cross Site Scripting (XSS)  - Command Injection Flaws  - Buffer Overflows  - Error Handling  - Logging  - Remote Administration  - Web Application and Server Configuration | <https://www.sans.org/white-papers/1389/>  - Risk Assessment  - Authentication  - Authorization and Access Control  - Session Management  - Data and InPut Validation  - Cross Site Scripting (XSS)  - Command Injection Flaws  - Buffer Overflows  - Error Handling  - Logging  - Remote Administration  - Web Application and Server Configuration |
| Q5.9. What is CSS media query rule?  Discuss the best practices of using CSS media queries rules for responsive web design. | What is media query  <https://www.w3schools.com/cssref/css3_pr_mediaquery.asp>  Media query best practices  <https://www.solodev.com/blog/web-design/media-queries-and-mobile-css-best-practices.stml>  Choose the Right CSS Breakpoints  Ems and Percentages  Design for Mobile from the Start  Use Responsive Testing Tools |
| Q5.10. Explain what applications are relevant to designing website layouts and how they are budgeted for.  You are required to discuss at least three tools. | Adobe Photoshop  Adobe Illustrator  Adobe XD |