

Front End acadEMy Final Examination

Recommended timing: 30min Q1-10, 90min Q11-15.

Name 3 ways to decrease page load (perceived or actual load time). 5p Specify what you would do to speed up the loading if you would have a site using a lot of large images. Why is it generally a good idea to position CSS <link>s between <head></head> and JS 5p <script>s just before </body>? Do you know any exceptions? How is CSS Specificity calculated? 5p What are the best practices adopted by EveryMatrix in that particular regard? 5p Explain the box model. List the attributes inside out. Does margin-top or margin-bottom have any effect on an inline element? Can the padding have negative values? What's the outline used for? 5p Describe the different values of the CSS "position" property. Give examples of use for Describe the z-index property and give an example of its use. 5p Why would you use an UL and LIs instead of DIVs? What about a DL with DTs and DDs? 5p What's your strategy for solving a difficult task to which you can't find an immediate solution to? What steps do you go through? How do you style a mobile-first progressively enhanced responsive layout, in regards to your 5p media query tactics? Give at least 1 example. 5р What does box-sizing: border-box; do? What are its advantages? What effect do the following CSS snippets have on a list of N elements: 5p li:nth-last-child(3) { color: red; }

li:nth-child(4n+1) { color: blue; }



Write an HTML code snippet of the EveryMatrix logo as a <picture> element with two vari-10p **‡11** ants: full (for resolutions 600px and above) and favicon (for 599px and below). Write the CSS for it to rotate slowly while you hover over it. **‡12** Write an HTML code snippet (no CSS) that describes a fully featured live broadcast event 10p about our Summer 2015 Team Building, using correct microformats. **‡13** Build a semantically correct contact form for your own website (with the fields: name, email, 10p phone, message), including HTML and CSS styles. **‡14** Using only HTML and CSS, build an apartment block with 10 stories, a triangular roof and 5 10p windows on each floor. Its design and colors are irrelevant as long as you can clearly see it's a building following the required specifications. **‡15** 10p Replicate the EveryMatrix top dropdown menu, but add animations for expanding and col-

lapsing the items. If you have time, also make it responsive.

‡ Thank you!