

2024 CpSc Q17

Section: Web Design and Development

Topic: Navigation structure vs page, CSS grouping and hover, JS events and DOM manipulation

Question Summary

(a)(i) Describe the difference between the navigational structure and the actual 'Captains and Prefects' page.

(a)(ii) Complete the CSS for the horizontal nav bar: no bullets, horizontal items, hover shows white background and black text.

(b)(i) Correct the HTML line for the Monday image so it is fit for purpose.

(b)(ii) Complete the JavaScript to display Monday's text using displayMon and hideAllDays.

Worked Solution

(a)(i) Difference

The navigational structure shows 'Captains and Prefects' as a level-2 page under Pupils. However, the actual page places links like Pupils, Parents/Carers, Faculties, Contact together at the same (top) level and treats 'Captains and Prefects' as a standalone page. It therefore does not reflect the hierarchy ('Captains and Prefects' should be within the Pupils section) and omits/reshuffles other level-2 items shown in the diagram.

(a)(ii) CSS (completed)

```
nav ul {
```

```
list-style: none;
}
```

```
nav ul li {
  display: inline-block;
  width: 180px;
}
```

```
nav ul li a {
  display: block;
  padding: 6px;
}
```

```
nav ul li a:hover {
  background-color: white;
  color: black;
}
```

(b)(i) Correct HTML line

Add an event to trigger the feature and supply alternative text:

```

```

(b)(ii) JavaScript — complete displayMon

Missing code	Answer
A	hideAllDays();
B	block

Final Answer

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(a)(i) The page does not follow the hierarchy: 'Captains and Prefects' should be under 'Pupils' (level-2), but the page treats it as top-level and rearranges/omits other items.

(a)(ii) list-style: none;, display: inline-block;, and a:hover with white background/black text.

(b)(i) ``

(b)(ii) A = hideAllDays(); , B = block.

Revision Tips

- Structure vs page: check the parent-child levels match the site map.
- Use list-style: none; to remove bullets; display: inline-block; to line up items horizontally while honoring width.
- In hover rules, target the anchor (a:hover) so the whole clickable area changes style.
- Show/hide with JavaScript by toggling style.display between none and block.

Exam Alignment

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Matches 2024 MI: identifies the hierarchy mismatch; completes CSS with grouping/no bullets/horizontal items/hover styles; fixes HTML to trigger the event; and supplies the two missing JavaScript parts (call hideAllDays(); set display to block).

