

2025 CpSc H Q17

Section: Web Design and Development

Topic: Implementation Using HTML, CSS and JavaScript

Question Summary

- (a) Draw a wireframe for a “ Request further information ” page capturing: e-mail, departure date, number of nights (1 – 14), holiday type (self-catering / bed and breakfast / all inclusive), and number of people (min 1).
(b) Identify the selector type for section p and describe its effect.
(c) Complete JavaScript to toggle ‘ More details ’ visibility and write the onclick to call it.

Worked Solution

(a) Wireframe design

```
+-----+
| Header: Holiday Info Request                                     |
+-----+
| Form                                                           |
| Label: E-mail          [-----]                               |
|                                                                  |
| Label: Departure date    [ yyyy-mm-dd (date picker) ]          |
|                                                                  |
| Label: Number of nights (1 – 14)  [ 1 ] (type=number, min=1, max=14) |
|                                                                  |
| Label: Holiday type          ( ) Self-catering                 |
|                               ( ) Bed & breakfast               |
|                               ( ) All inclusive                 |
|                                                                  |
| Label: Number of people ( ≥ 1)    [ 1 ] (type=number, min=1)    |
|                                                                  |
| [ Submit ]                  [ Reset ]                           |
+-----+
| Footer / help text: *All fields required. We ’ ll reply by e-mail. |
+-----+
```

(b)(i) Selector type

section p is a descendant selector.

(b)(ii) Effect

It applies the rule to all `<p>` elements that are inside any `<section>` element (at any nesting level). In the snippet, it sets a dark grey background on the descriptive paragraphs inside the hotel `<section>`.

(c)(i) Complete the JavaScript

```
function toggleDisplay(DivToShow) {  
  var x = document.getElementById(DivToShow);  
  if (x.style.display === "none") {  
    x.style.display = "block";  
  } else {  
    x.style.display = "none";  
  }  
}
```

Use `display = "block"` to show the hidden `<div>`.

(c)(ii) Call the function from the “ More details ” heading

```
<h3 onclick="toggleDisplay('info1')">+ More details</h3>
```

Clicking the heading toggles the visibility of the `<div id="info1">`.

Final Answer

(a) Wireframe as shown (fields: e-mail, departure date, nights 1 – 14, holiday type radio group, number of people ≥ 1 , submit/reset).

(b)(i) section p is a descendant selector.

(b)(ii) It targets all `<p>` elements inside any `<section>`, setting their background to dark grey.

(c)(i) Use `x.style.display = "block"`; to show the element; otherwise set to `"none"`.

(c)(ii) Example: `<h3 onclick="toggleDisplay('info1')">+ More details</h3>`.

Revision Tips

- Descendant selector: `A B` matches any `B` inside `A` (any depth).
- Toggle patterns often check `style.display`; ensure the initial CSS sets `display:none`; on the hidden block.
- For accessibility, consider using a `<button>` for toggles and update `aria-expanded`.

Request Further Information

E-mail

Departure date

Number of
nights (1-14)

Holiday type

- ☐ Self-catering
☐ Bed & breakfast
☐ All inclusive

Number of
people (≥1)

Submit

Reset

*All fields required. We'll reply by e-mail.