

2024 CpSc Q18

Section: Web Design and Development

Topic: CSS layout (floats & gaps), form wireframe, HTML input attributes, selector types, compatibility testing

Question Summary

- (a) Complete CSS so two sections are side-by-side (385×200 with 10px gap) and a third below (790×120 with 10px top gap).
- (b)(i) Draw a wireframe for a voucher enquiry form with required inputs.
- (b)(ii) State attributes to ensure an email of at least six characters must be entered.
- (c) Identify the selector type in footer p and explain its effect.
- (d) Describe two compatibility tests for a video page.

Worked Solution

(a) CSS completion

Add margins/clearing to meet the wireframe sizes and gaps:

```
#trialFlyingLessons, #flightSimulator {  
    width: 385px;  
    height: 200px;  
    float: left;  
}
```

```
#flightSimulator {  
    margin-left: 10px; /* 10px gap between the two boxes */
```

```
}
```

```
#giftVouchers {  
  width: 790px;  
  height: 120px;  
  clear: both;      /* force below the floated boxes */  
  margin-top: 10px; /* 10px gap below the top row */  
}
```

(b)(i) Wireframe for gift-voucher enquiry form

```
+-----+  
| Gift Voucher Enquiry |  
+-----+  
| Name *      [_____] |  
| Telephone * [_____] |  
| Email *     [_____] |  
| Preferred location * [Glasgow ▼] [Edinburgh] [Prestwick] |  
| Preferred date *   [__-__-__] (date picker) |  
|                   |  
| [ Submit ]       |  
+-----+
```

Use appropriate HTML controls: text inputs for Name and Telephone, type="email" for Email, a <select> for location with options Glasgow/Edinburgh/Prestwick, and type="date" for the preferred date. Mark required fields with required.

(b)(ii) Add attributes to enforce an email of at least six characters:

type="email", required, and minlength="6".

(c) footer p is a descendant selector of two type selectors. Effect: it applies the rule to every <p> element that is

inside a `<footer>` element (here, sets font size to 10px).

(d) Two compatibility tests for the video page:

- Browser/codec compatibility: Test playback across major browsers (Chrome, Firefox, Safari, Edge) with common formats (e.g., MP4/H.264 and WebM) to confirm videos load and controls work.
- Device/responsive compatibility: Test on mobile, tablet, and desktop at different screen sizes to ensure the layout, video containers, and controls adapt correctly (no overflow, readable text, touch-friendly controls).

Final Answer

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(a) Use `margin-left:10px` on `#flightSimulator`; make `#giftVouchers` 790×120 with `clear:both` and `margin-top:10px`.

(b)(i) Wireframe shows fields: Name, Telephone, Email, Preferred location (select), Preferred date (date input), and Submit.

(b)(ii) `type="email"`, `required`, `minlength="6"`.

(c) Descendant selector — targets all `<p>` inside `<footer>`.

(d) Test cross-browser/codec support and responsive behaviour on multiple devices.

Revision Tips

- When laying out side-by-side boxes with floats, use margins to create gaps and `clear` on the next row.
- Use the most appropriate form controls (email, date, select) and mark mandatory inputs with `required`.

- Descendant selectors apply styles only to elements nested within the ancestor.
- Video support can vary by browser — provide fallback formats or a poster image if needed.

Exam Alignment

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Matches 2024 MI: correct float/margin/clear values to reproduce the wireframe; suitable form layout and controls; email validation attributes; correct identification of descendant selector; two distinct compatibility tests.

Header

TRIAL FLYING
LESSONS



FLIGHT
SIMULATOR



GIFT
VOUCHERS

