Grade 8 Computing

Unit 5 · Making Web Pages

ANSWER KEY · FOR TEACHERS

Full marks 32

Give the marks for the points in the marking scheme; an answer in other words that says the same is right.

1 Key words

1. markup
2. tags
3. element
4. attribute
5. empty elements
6. selector
7. padding
8. margin

Each carries 0.5 mark. **K · 4**

2 Label the diagram

1. attribute
2. opening tag starts the link
3. content shown on the page
4. closing tag ends it

Each carries 0.5 mark. **K · 2**

3 Multiple choice

i. **b.** `</p>` **K · 1**

A closing tag has a slash after the <. It ends the element that the matching opening tag started.

ii. **c.** `<img src="tihar.jpg" alt="Oil lamps in a row on a doorstep at Tihar">` **U · 1**

An image needs its file in `src` and words that say what it shows in `alt`. The first has no file to show (and its alt is only a file name); the second leaves screen-reader users with nothing; the last is not HTML.

iii. **b.** tells a phone to lay out the page at its own width, instead of as a computer screen about 980 px wide shrunk to fit **U · 1**

Without it, phones lay the page out as if their screen were as wide as a computer's and then shrink it, so the text becomes tiny. Pictures still need `max-width: 100%` in the CSS to fit.

iv. **b.** every element with `class="notice"` **U · 1**

A selector starting with a dot selects by class. `notice` without the dot would select elements named `<notice>`, which HTML doesn't have.

v. **b.** feedback **A · 1**

If the site doesn't show that it heard the first tap ("Paying…", then "Paid"), people think nothing happened and tap again. Good feedback tells people at once what their action did. (Being forgiving would help too: the site could refuse to take the same payment twice.)

4 What does the page show?

MARKING SCHEME **U · 3**

- ✓ The heading The five days, bigger and bold (`<h2>`), with no tags shown.
- ✓ The two days as a numbered list, 1 and 2 (`<ol>` with `<li>`).
- ✓ The sentence Dogs get a garland. with only garland in bold (`<strong>`).

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5 Design for people

1. You press Pay and nothing changes on the screen. → **c.** feedback — U · 2
2. “Book” on one page is “Reserve” on the next. → **d.** consistent
3. One wrong date wipes out the whole form. → **a.** forgiving
4. Tiny pale text, in English only. → **e.** for everyone

Each carries 0.5 mark.

6 Find and fix the mistakes

ANSWER — A · 4

1. `<html>` has no `lang`: `<html lang="en">` (and the page needs `<!DOCTYPE html>` and a head with a title).
2. The first heading should be an `<h1>`, and its closing tag needs a slash: `<h1>Our school</h1>`.
3. `<strong>` and `<p>` cross: `<p>We have <strong>600 students</strong>.</p>`.
4. The picture has no alt text: `<img src="school.jpg" alt="Our school’s three-storey building and its playground">`.

MARKING SCHEME

- ✓ `lang` missing on `<html>` (`lang="en"`).
- ✓ The heading’s closing tag has no slash (`</h3>`, or `</h1>` with the heading made an `<h1>`, the page’s first heading).
- ✓ `<strong>` and `<p>` cross: `</strong>` must come before `</p>`.
- ✓ `alt` missing on the `<img>`, with alt text that says what the picture shows.

7 Write HTML and CSS

a. **MARKING SCHEME** — A · 3

- ✓ `<table>` holding rows, `<tr>`, each with its cells.
- ✓ A first row of heading cells, `<th>To</th>` and `<th>Fare</th>`.
- ✓ Two rows of `<td>` cells, Kathmandu and Rs 50, Banepa and Rs 60, all properly closed.

b. **MARKING SCHEME** — A · 3

- ✓ `body { color: #333; font-family: sans-serif; }`.
- ✓ `h1 { color: maroon; }`.
- ✓ `.fare { background-color: #fff3c4; padding: 8px; }`, with the dot for the class.

8 Short answers

a. **MARKING SCHEME** — U · 2

- ✓ People using a screen reader: it reads the Nepali with English rules and an English voice, which comes out as nonsense.
- ✓ Search engines and translation tools take it for English too; the fix is `<html lang="ne">`.

b. **MARKING SCHEME** — U · 2

- ✓ Padding is the space inside the border, between the border and the content, filled with the box’s background color.
- ✓ Margin is the space outside the border, between this box and the boxes around it.

9 Think

ANSWER

Screens come in every width: small phones are narrower than 360 px (the box would stick out again), bigger phones and tablets wider, and a computer’s screen four times as wide, where a 360 px strip in the middle would look lost. `max-width` with no fixed width lets the

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same page fit them all. In later grades you will also learn to change the layout itself for wider screens, for example putting two columns side by side only when there is room.

MARKING SCHEME

- ✓ Screens come in every width: a smaller phone is narrower than 360 px (the box sticks out again), and on a tablet or computer a 360 px strip looks lost.
- ✓ `max-width` with no fixed width lets the same page fit every screen.

10 Activity: Review a real website

(not marked)

WHAT STUDENTS SHOULD FIND

Answers depend on the site. Good reviews give a real example for each row, such as “the menu is in the same place on every page” (consistent, present) or “the search button is only an icon” (clear, missing). Common findings on Nepali sites: pale text with low contrast, pictures with no alt text, English only, and pages that need sideways scrolling on a phone. Students should end with the two changes that would help most, and who they would help.

Marks by level	Knowledge	Understanding	Application	Higher ability	Total
Marks	7	12	11	2	**32**

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