12.3 HCI and accessibility

Name: _____ Class: _____ Date: _____ **Total: 24 marks**

KEY WORDS states • transitions

Objective

Reason about interface states and measure accessibility.

1 Key knowledge and worked examples

The flow

Five states: browsing, detail, confirm, done, error. Every reachable state needs a visible exit ✓.

Worked example: the numbers

Body text 7:1 passes; grey disabled 2.9:1 fails; the replacement 4.6:1 with an underline passes ✓.

2 Practice

2.1 From which state is error reachable, and where does it return? [3]

2.2 State the WCAG text-contrast threshold. [3]

2.3 Why is placeholder-as-label a defect? [3]

exercises.lol exercises.com.cn

3 Exam-style questions

3.1 The team adds a renewal screen with states: detail, renew confirm, renewed, error.

List the transitions needed so every state has an exit. State what the error state must preserve and offer. Give the keyboard path in order (which keys, which controls). State the focus requirement on each control. [8]

3.2 An audit finds: body 7:1, secondary text 3.8:1, disabled button 2.9:1, focus ring invisible on the confirm button.

Classify each against WCAG (pass/fail, and the threshold). Give the repair for each failure. State the general principle the audit illustrates. [7]

exercises.lol exercises.com.cn