Exam 2 Version X

Question 1
[1 points] Assume element is a Selenium WebElement given by <a <="" href="page.html" th="">
target="_blank">link<\a>. Which of the following returns "page.html"?
element.href
element.text
<pre>element.get_attribute("href")</pre>
element.get_attribute("text")
Question 2
[1 points] Suppose element is an HTML table WebElement with 3 rows and 3 columns, which of the
following code finds the text in the first cell of the last row in the table?
element.find_elements("tag name", "tr")[2].find_elements("tag name", "td")[2].text
element.find_element("tag name", "tr").find_element("tag name", "td").text
element.find_elements("tag name", "tr")[2].find_element("tag name", "td").text
element.find_element("tag name", "tr").find_elements("tag name", "td")[2].text

"B"

"A"

"D"

"C

Question 4

[1 points] There are infinite number of web pages labeled by (0, 0), (0, 1), (0, 2), ..., (1, 0), (1, 1), ... and page (i, j) contains links to pages (i + 1, j) and (i, j + 1). Suppose we start at page (0, 0) and the goal is to find page (10, 10), which one of the following search heuristic is NOT admissible?

h((i, j)) = |10 - i| + |10 - j|

 $\sqrt{h((i, j))} = 1$

h((i, j)) = max(|10 - i|, |10 - j|)

h((i, j)) = 0

http://127.0.0.1:5000/aaa

http://127.0.0.1:5000/bbb

http://127.0.0.1:5000/index

http://127.0.0.1:5000/

S		\equiv
[] fla	Question 7 [1 points] Which of the following types of visitor information can be found based on ask.request.remote_addr?	
	Browser information	
	Device information	
✓	Service provider	
	Operating system	
	Question 8	
vis	[1 points] In a Flask app, app.route("/index/ <x>") binds the function index(x) return x. What w sits to "/index/2?x=1" display?</x>	vill
]1	
	(Error)	
	(Status Code 404)	
✓	2	

Question 9[1 points] Suppose the total number of visits to version A and version B pages are fixed, say at 100 and
100. Which of the following will result in the smallest p-value for an A/B test?
75 clicks on A, 25 clicks on B
50 clicks on A, 0 clicks on B
50 clicks on A, 50 clicks on B
0 clicks on A, 100 clicks on B
Question 10 [1 points] When analyzing three contingency tables from an A/B test, scipy.stats.fisher_exact(df) returns 0.005 for table 1, 0.05 for table 2, and 0.5 for table 3. At a threshold for significance of 10 percent, for how many tests do we have statistically significant evidence that B has a different click-through-rate than A? 3 2 1 0

Question 11 [1 points] If the current average click through rates from versions A, B, C of the page are the same, and the numbers of visits to A, B, C are 10, 20, 30, respectively, which version with the UCB1 (upper confidence bound) algorithm display next?
A, B, C with equal probability
Depends on the variance
Overtion 12
Question 12 [1 points] How many of the following visual encodings are more suitable for ordinal data columns over categorical data columns: (1) size, (2) shape (style), (3) color value (lightness or brightness), (4) color hue, (5) texture (different patterns inside a shape).
4
2
3

[1 points] In a DataFrame with columns c1, c2, c3, c4 containing categorical data with 2, 3, 4, 5 categories respectively, how many subplots (axes) will seaborn.relplot(data, x = "c1", y = "c2", col= "c3", row = "c4") make?

- **2**0
- | |12
- 6
- Question 14
- [1 points] Which of the following transform will give you the circle that looks the largest on the screen?

```
fig, ax = plt.subplots()
ax.set_xlim(0, 2)
ax.set_ylim(0, 2)
circle = plt.Circle((0.5, 0.5), 0.5, transform = ??)
??.add_artist(circle)
```

- ax.transData
- (two of the choices have the same largest size)
- ax.transAxes
- ✓ fig.transFigure

Question 15 [1 points]If the quadratic Bezeir curve matplotlib.patches.FancyArrowPatch((10, 10), (0, 0) connectionstyle=ConnectionStyle.Angle3(135, 90) has three control points (10, 10), (a, b), (0, 0), what is the value of (a, b)? (0, 10)
 ✓ (0, 20) (20, 0) (10, 0)
<pre>Question 16 [1 points] Which of the following does NOT produce a square if x = shapely.geometry.box(0, 0, 2, 2), y = shapely.geometry.box(1, 1, 3, 3)? (All other choices produce a square) x.union(y) x.intersection(y)</pre>

]x.convex_hull

C	
	Question 19 [1 points] What does this line output re.sub(r"(((\d)\d)\d)\", "\g<3>\g<2>\g<1>", "123 320")?
]"123121 320323"
✓	"112123 332320"
	"123 320 12 32 1 3"
]"321 023"
	Question 20
	[1 points] If you think any of the questions are not clear or incorrect, please explain here; otherwise,
ent	er "none". Please do not leave the answer blank:
[



■ END OF EXAM

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