Question 1	1 pts
A document object model must be	
○ a. Cyclic and weakly connected	
○ b. Acyclic and strongly connected	
○ c. Acyclic and weakly connected	
○ d. Cyclic and strongly connected	
Question 2	1 pts
 Document object model can include the results generated by any scripts The requests module can get the results generated by scripts The selenium module will automatically wait for the script results to load before including them in the model. How many statements are true?	
O 0	
O 1	
○ 2	
○ 3	
Question 3	1 pts
Question 3 Let "b" be a Chrome webdriver Which of the following is the correct way to find the hyperlink on a webpage?	1 pts
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Let "b" be a Chrome webdriver Which of the following is the correct way to find the hyperlink on a webpage? O a. b.find_element("tag name", "a")	1 pts
Let "b" be a Chrome webdriver Which of the following is the correct way to find the hyperlink on a webpage? o a. b.find_element("tag name", "a") b. b.find_element("tag name", "a").get("href")	1 pts
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Let "b" be a Chrome webdriver Which of the following is the correct way to find the hyperlink on a webpage? o a. b.find_element("tag name", "a") b. b.find_element("tag name", "a").get("href") c. b.get_attribute("tag name", "href") d. b.find_element("tag name", "a").get_attribute("href") Question 4 Which of the following is responsible for specifying the correct content type on a website?	
Let "b" be a Chrome webdriver Which of the following is the correct way to find the hyperlink on a webpage? o a. b.find_element("tag name", "a") b. b.find_element("tag name", "a").get("href") o c. b.get_attribute("tag name", "href") old_b.find_element("tag name", "a").get_attribute("href") Question 4 Which of the following is responsible for specifying the correct content type on a website? o a. File extension	
Let "b" be a Chrome webdriver Which of the following is the correct way to find the hyperlink on a webpage? o a. b.find_element("tag name", "a") o b. b.find_element("tag name", "a").get("href") o c. b.get_attribute("tag name", "href") ol. b.find_element("tag name", "a").get_attribute("href") Question 4 Which of the following is responsible for specifying the correct content type on a website? o a. File extension b. Hyperlink extension	

Question 5			1 pts
Which of the follo	wing allows us to acc	cess the ip address of the user visiting the flask application?	
○ a. flask.request.re	emote_addr		
○ b. flask.request.i	o_addr		
○ c. flask.Response	e.ip_addr		
○ d. flask.Response	e.remote_addr		
Question 6			1 pts
Which of the follo	wing represents the	local ip address?	
O 127.0.0.1			
O.0.0.0			
○ "any"			
○ "all"			
Question 7			1 pts
Select the false sta		any requests were made to the server	
		only setting the Retry-After response header	
	revents the server from		
		y-After header so that users can see what the limit is and adhere to it	
	Tronves setting the reti	, The reader so that agers can see what the miners and canere to h	
Question 8			1 pts
	Click	No-click	
А	1000	5000	
В	300	450	
one is more attrac		comepage to sell their products. Their designers designed two different homepages and you are trying to determine we shows the number of people who clicked on the product information link from each version of the homepage. Whice?	
○ a. A, because it n	nore people clicked on t	the link from A.	
○ b. A, because a h	igher fraction of visitor	s clicked on the link from A.	
○ c. B, because it n	nore people clicked on t	the link from B.	
O d. B, because a h	igher fraction of visitor	s clicked on the link from B.	

Question 9	1 pts
Which of the following statements is true?	
a. When comparing click-through rates for A/B testing, a higher p value indicates that the versions have a significantly different click through rate.	
○ b. The number of impressions of A and B must be equal for an A/B test.	
○ c. B/A testing, in combination with A/B testing, helps to control for novelty.	
○ d. The p value is the false negative rate.	
Question 10	1 pts
Why do we use io.StringIO for displaying dashboards (as we use it in CS320)?	
a. It is used to write and read the image in png format	
O b. It is used to write and read the image in svg format	
o c. It is used to write and read the image in jpg format	
O d. It is used to write and read the image in xml format	
Question 11	1 pts
Consider the following code.	
from flask import Flask, request, jsonify, Response	
<pre>app = Flask("cs320")</pre>	
<pre>@app.route("/")</pre>	
<pre>def home():</pre>	
return("test")	
<pre>@app.route("/getdata.html")</pre>	
<pre>def data():</pre>	
<pre>qstring = request.args.get("y", 0)</pre>	
<pre>print(qstring)</pre>	
<pre>return(str(request.args.get("x", 9)))</pre>	
<pre>ifname == 'main':</pre>	
app.run(host="0.0.0.0", debug=True, threaded=False) What value will be displayed on the webpage on accessing http://127.0.0.1:5000/getdata.html?x=2y=3 ?	
○ 2	
○ 2y=3	
O 0	
O 9	
○ Error	

Which of the following is false?	
a. The POST route is used to allow users to upload information	
○ b. We can send and receive data from the command-line on a POST route	
○ c. The POST route is useful for collect large amounts of data from the users	
Od. POST is the default route used by flask	
Question 13	1 pts
<pre>string = "She sells seashells and she also goes surfing"</pre>	
re.sub(r"\She(.\?\)\\$", "\g<2\\g<1\", \string)	
What is the output of the above code?	
a. 'lls and she also goes surfing sells sea'	
○ b. ' sells sealls and she also goes surfing'	
o c. 'also goes surfing sells seashells and '	
○ d. ' sells seashells and also goes surfing'	
Question 14	1 pts
Question 14	1 pts
Question 14 <pre>string = """Apples</pre>	1 pts
	1 pts
<pre>string = """Apples</pre>	1 pts
<pre>string = """Apples Oranges</pre>	1 pts
<pre>string = """Apples Oranges Peach</pre>	1 pts
<pre>string = """Apples Oranges Peach """</pre>	1 pts
<pre>string = """Apples Oranges Peach """ l = re.findall("[Apple Banana]", string)</pre>	1 pts
<pre>string = """Apples Oranges Peach """ [] = re.findall("[Apple Banana]", string) len(1)</pre>	1 pts
<pre>string = """Apples Oranges Peach """ [] = re.findall("[Apple Banana]", string) len(1)</pre>	1 pts
<pre>string = """Apples Oranges Peach """ l = re.findall("[Apple Banana]", string) len(1) What is the output of the above code?</pre>	1 pts
<pre>string = """Apples Oranges Peach """ l = re.findall("[Apple Banana]", string) len(l) What is the output of the above code?</pre>	1 pts
<pre>string = """Apples Oranges Peach """ l = re.findall("[Apple Banana]", string) Len(1) What is the output of the above code?</pre>	1 pts
string = """Apples Oranges Peach """ l = re.findall("[ApplelBanana]", string) len(l) What is the output of the above code? O 0 O 1 O 9	1 pts
<pre>string = """Apples Oranges Peach """ l = re.findall("[Apple Banana]", string) Len(1) What is the output of the above code?</pre>	1 pts
string = """Apples Oranges Peach """ l = re.findall("[ApplelBanana]", string) len(l) What is the output of the above code? O 0 O 1 O 9	1 pts

1 pts

Question 12

```
fig, ax = plt.subplots(figsize=(4, 4))
ax.set_xlim(0,2)
ax.set_ylim(0,2)
c1 = plt.Circle((0.5, 0.5), 0.3, transform=ax.transData, color="red", alpha=0.5)
ax.add_artist(c1)
c2 = plt.Circle((0.5, 0.5), 0.3, transform=ax.transAxes, color="blue", alpha=0.5)
ax.add_artist(c2)
c3 = plt.Circle((0.5, 0.5), 0.3, transform=fig.transFigure, color="yellow", alpha=0.5)
ax.add_artist(c3)
Select the largest circle
 O c1
 O c2
 ○ c3
Question 16
                                                                                                                                                             1 pts
Which of the following is true?
 ○ a. gdf.intersects() returns a Boolean series
 O b. gdf.intersection() returns a Boolean series
 \bigcirc c. gpd.GeoDataFrame is the parent class of pd.DataFrame
 ○ d. gdf.intersects() returns a GeoSeries
Question 17
                                                                                                                                                            1 pts
from shapely.geometry import box
x = box(1,1,3,3)
y = box(1,2,4,6)
```

Which of the following would produce the above figure as the output?

- b. x.intersection(y)

○ a. x.union(y)

- c. x.difference(y)
- d. y.difference(x)