Week 9: Assignment 9

Your last recorded submission was on 2024-09-17, 10:48 IST Due date: 2024-09-25, 23:59 IST.

1) 'nltk.download()' function downloads necessary packages for the Natural Language Toolkit (NLTK) library? ***1 point***

- (●) True
- ( ) False

2) Which of the following best defines a complete graph? ***1 point***

- (●) A graph where every pair of distinct vertices is connected by a unique edge
- ( ) A graph with no edges
- ( ) A graph with a single vertex
- ( ) A graph with at least one loop

3) How many edges are there in a complete graph with 4 nodes? ***1 point***

- (●) 6
- ( ) 8
- ( ) 12
- ( ) 16

4) Which Python library is most commonly used for working with graphs related to networks? ***1 point***

- ( ) Random
- ( ) Pandas

- ○ NumPy
- ◉ NetworkX

5) Gephi is: ***1 point***

- ○ A Python library for linear algebra
- ◉ A software for visualizing and analyzing large networks
- ○ A tool for data cleaning and preprocessing
- ○ A Python library for building statistical models

6) How many attributes typically define a color in digital representations? ***1 point***

- ○ 1
- ○ 2
- ◉ 3
- ○ 9

7) What is the degree of a node in a graph? ***1 point***

- ◉ The number of edges connected to the node
- ○ The shortest path between two nodes
- ○ The number of nodes in the graph
- ○ The distance from the node to the center of the graph

8) What is the primary goal of stylometry? ***1 point***

- ◉ To analyze the style and structure of literary works for authorship attribution
- ○ To create stylized graphics for digital art
- ○ To study phonology of languages
- ○ To enhance the readability of texts by adjusting font styles

9) Given the following Python code, what is printed in the end? ***1 point***

```
x = ["apple", "banana", "cherry", "date"]
k = 0
for item in x:
    k += len(item)

print(k)
```

- ○ 4
- ◉ 21
- ○ 24
- ○ 26

10) How can you estimate the area of a sub-region within a larger region by randomly throwing points in the larger region? ***1 point***

- ○ By counting the total number of points and calculating the sum of their distances from the center
- ◉ By calculating the proportion of points that land in the sub-region compared to the total number of points in the larger region
- ○ By calculating the distance between each point and the boundary of the region
- ○ By averaging the coordinates of all the points that land in the larger region

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers