<u>Solutions - Week 1 Assignment</u>

1. Which of the following statements is / are true?
    a. **On Pinterest, images are grouped together by logical constructs called boards.**
    b. **Whisper is an anonymous social network.**
    c. Instagram is a bi-directional social network.
    d. LinkedIn is primarily a location-based dating application.

2. Which of the following commands will update the list of packages available for installation on Ubuntu?
    a. sudo apt-get fetch-packages
    b. sudo apt-fetch update
    c. **sudo apt-get update**
    d. superuser do-get update-packages

3. Pip is a
    a. Formatting tool for python
    b. Command line python interpreter
    c. **Package manager for python**
    d. Virtual environment for executing python programs

4. What command would one use to execute a python program called *test_program.py*?
    a. exec test_program.py
    b. python test_program
    c. python testProgram.py
    d. **python test_program.py**

5. Which of the following is an ephemeral social network?
    a. Whisper
    b. Tinder
    c. **Snapchat**
    d. Pinterest

6. Which of the following is the HTTP code for an OK response?
    a. 201
    b. **200**
    c. 404
    d. 424

7. The case of the compromised Associated Press Twitter account posting the tweet 'Breaking: Two explosions in the White House and Barack Obama is injured' demonstrates an attack on which of the following Vs of online social media?

a. Variety
b. Volume
c. **Veracity**
d. Velocity

8. What is the difference between hashtags and mentions on Twitter?
   a. **Hashtags are used to tag content, while mentions are used to tag people**
   b. Hashtags are used to tag people, while mentions are used to tag content
   c. **Hashtags begin with an octothorp (#), while mentions begin with the @ symbol**
   d. Hashtags begin with the @ symbol, while mentions begin with an octothorp (#)

9. Select the correct statements from the following.
   a. A like on Facebook is analogous to a follow on Twitter.
   b. **A like on Facebook is analogous to a +1 on GooglePlus.**
   c. **A share on Facebook is analogous to a retweet on Twitter.**
   d. A share on Facebook is analogous to a connection on LinkedIn.

10. Facebook stores its data as a/an
    a. Binary heap
    b. **Graph**
    c. AVL Tree
    d. Array

11. If X if the maximum possible length of a post on Facebook and Y is the maximum possible length of a post on Twitter, which of the following correctly identify the relationship between X and Y?
    a. $X \geq Y$
    b. $Y \geq X$
    c. **$X > Y$**
    d. $Y > X$

12. Consider the following statement, S.
    If X if the maximum possible value of A on B and Y is the maximum possible value of A on C, then $X < Y$.
    Which of the following values of A, B and C satisfy S?
    a. A = the length of a video, B = YouTube, C = Vine
    b. **A = the length of a video, B = Vine, C = YouTube**
    c. A = the time for which a story lives, B = SnapChat, C = Instagram
    d. A = the time for which a post lives, B = Twitter, C = Facebook

13. Which of the following social networks are image centric?
    a. **Flickr**

b. Wickr
c. **Instagram**
d. **Pinterest**

14. F_n is defined as the number of edges in a complete graph of n Facebook users, where an edge exists between two Facebook users if they are friends on Facebook, and every user is friends with every other user.

T_n is defined the number of edges in a complete graph of n Twitter users, where an edge exists from user A to user B if A follows B, and every user A follows every other user B. Which of the following are true?

a. $F_n > T_n$
b. **$T_n > F_n$**
c. $F_{n+1} > T_n$
d. **$F_{n+3} > T_n$**

15. Twitter trends are
a. **A metric to determine popular topics on Twitter**
b. Composed exclusively of hashtags
c. **Sensitive to the location a user selects**
d. The most searched-for phrases on Google in the last 24 hours

16. What is the difference between Periscope and YouTube?
a. Periscope has images while YouTube has videos
b. **Periscope has live streaming of videos while videos are uploaded and stored on YouTube**
c. Periscope has short duration videos while YouTube can have long duration videos also
d. None of the above

17. Online social media is afflicted by
a. **Cyberbullying**
b. Lack of reach
c. **Misinformation**
d. A paucity of data

18. Online social media has been effectively used for
a. Targeted marketing
b. Crisis management
c. Locating missing children
d. **All of the above**

19. Which of the following is *not* a building block of Foursquare?
a. **Wall**

b. Tip
c. Done
d. Check-in

20. Which of the following HTTP methods does your browser use to fetch Google's home page?
    a. PUT
    b. POST
    c. **GET**
    d. DELETE