

1. Which of the following is a form of privacy? 5 Marks
 - a. Communication
 - b. Territorial
 - c. Bodily
 - d. **All of the above**

2. Which of the following statement(s) is / are true for the concept of k-anonymity? (5 Marks)
 - a. The information for each individual in the released anonymized dataset can be distinguished from at-least k-1 individuals whose information also appears in the anonymized dataset
 - b. **The information for each individual in the released anonymized dataset cannot be distinguished from at-least k-1 individuals whose information also appears in the anonymized dataset**
 - c. K-anonymity provides privacy even if the sensitive attributes in the dataset lack diversity
 - d. None of the above

3. Which of the following statement(s) is / are true?
 - a. **Police and citizen engagement is more when police generates content on OSN**
 - b. Police and citizen engagement is more when citizen generates content on OSN
 - c. Police and citizen engagement is same no matter who generates the content
 - d. None of the above

4. Which of the following attributes were re-identified by Latanya Sweeney's user linking work?
 - a. Ethnicity, birth date, sex
 - b. **Zip, birth date, sex**
 - c. Address, birth date, sex
 - d. Name, birth date, sex

5. Which of the following crowdsourcing platform is used to validate ground truth creation?
 - a. Pittpatt
 - b. Amazon EC2
 - c. **Mechanical Turk**
 - d. None of the above

6. Which of the following statement(s) is / are true?
 - a. Fundamentalists make decisions about privacy keeping the situation in mind
 - b. **Fundamentalists don't give away personal information**
 - c. Pragmatics give away their personal information very easily
 - d. All of the above

7. Which of the following combination of attributes was used to infer home location of a Foursquare user with high confidence, as described in the paper - 'Beware of What You Share: Inferring Home Location in Social Networks'?
 - a. Tips, Check-ins
 - b. Tips, Mayorship
 - c. **Check-ins, Mayorship**
 - d. Tips, Likes

8. Which of the following type of content is generated during police-citizen interaction on OSM?
 - a. Acknowledgement
 - b. Follow-ups
 - c. Replies
 - d. **All of the above**

9. Which of the following was found to be the top citizen concern from the posts obtained from public Facebook police pages?
 - a. Online fraud
 - b. **Neighbourhood**
 - c. Traffic
 - d. Women harassment

10. Which of the following statement(s) is / are true?
 - a. When citizens initiate a post on OSM, negative sentiment is lower
 - b. **When citizens initiate a post on OSM, arousal is higher**
 - c. Citizen initiated posts are more topic-specific than police initiated posts
 - d. None of the above

11. Use the Graph API to collect the posts made by Barack Obama's official Facebook page (<https://www.facebook.com/barackobama/>). What is the total number of posts made by the page between January 1, 2016 and April 1, 2016 (both days included)? Mark the closest match in case your answer does not exactly match one of the options.
 - a. **130**
 - b. 172
 - c. 214
 - d. 89
 - e. 100
 - f. 282

Solution: Query to input in Facebook Graph API explorer:

barackobama/posts?since=2016-01-01T00:00:00&until=2016-04-01T23:59:59&limit=100

The above query outputs 100 posts in the first response and another 30 in the “next” page (use JSON viewer to count the posts).

12. Which of the following is the correct page ID of the Narendra Modi’s verified Facebook page? Use the Graph API to determine the correct answer.
- 18839785
 - 100012486090226
 - 177526890164**
 - 185784491446349

Solution: Simply open <http://www.facebook.com/<page-id>>, where <page-id> is one of the options above, one by one. Option (c) will open up the Narendra Modi’s verified page. Alternatively, look for the page using Facebook’s interface. Copy the page name (narendramodi) and paste it in the Graph API explorer to obtain the page ID.

13. Use the Twitter API to collect all tweets made by Dr. PK (instructor of the course; Twitter username: @ponguru) to answer the following. In which month did Dr. PK post the most number of tweets?
- July, 2011
 - June, 2012
 - May, 2013
 - April, 2014
 - March, 2015
 - February, 2016**

Solution: Script to download all tweets of a user into a CSV:

<https://gist.github.com/yanofsky/5436496>

Use this to download all tweets, and count the number of tweets for each of the above options and you should find around 166 tweets for February, 2016, which is the highest.

14. Which mobile device was most frequently used by Dr. PK for posting tweets?
- Android
 - iPhone**
 - iPad
 - Windows Phone

Solution: Use the above script to output the “source” (tweet.source) field in the output CSV file. Twitter for iPhone occurs most frequently.

15. Which of the following usernames has Dr. PK “mentioned” the most in his tweets? (A mention is a Tweet that contains another user’s @username anywhere in the body of the Tweet.)
- a. @srishti_gupta14
 - b. @anupama_agg
 - c. @niharikasachdev
 - d. @prateekdewan

Solution: Use the above script to download all tweets in a CSV, and simply count the number of occurrences of all the aforementioned choices.