# WORKSHEET

NATURAL LANGUAGE PROCESSING – WORKSHEET 2

**All the questions in this worksheet have one or more than one correct answers. Choose all the correct options to answer the questions:**

1. Consider the below string:

**“please mail me at nitin12@gmail.com”**

Which of the following patterns can capture the mail id in above string?

* 1. ‘.\*@[a-z]\*.com ‘ B) '[a-z]\*@[a-z]\*.com'

C) '[/w]\*@[/w]\*.[/w]\*' D) ‘[/w]+com’

**Answer 1: - C**

1. Which of the following is an quatifier in regular expressions in python?
   1. ‘\*’ B) ‘+’ C) ‘?’ D) ‘{‘

**Answer 2:- D**

1. Which of the following captures a pattern having @ symbol followed by 4 alphabets?
   1. ‘@[/w]{4}’ B) ‘@.{4}’

C) ‘@[/w]{1,4}’ D) ‘@.{0,4}

**Answer 3:- A**

1. url = **“http://www.telegraph.co.uk/formula-1/2017/10/28/mexican-grand-prix-2017-time-does-start-tvchannel-odds-lewisl/2017/05/12”**

Which of the following regexp patterns can be used to extract date from the above url?

* 1. '/(\d{4})/(\d{1,2})/(\d{1,2})/' B) ‘^/[/d]{4)/[/d]{2}/[/d]{2}’

C) ‘/[0-9]{4}/[0-9]{2}/[/d]{2}’ D) None of the above

**Answer 4:- B**

1. Which of the following meta-sequence is to match all alphanumeric characters?
   1. /w B) /d

C) /s D) /m

**Answer 5:- A**

1. Which of the following regexp pattern which would extract all the hashtags from the below string?

String = **“sachin will love to play cricket at #lords in #ICCcricketworldcup #2k15”**

**Import re**

**re.findall(pattern, String)**

* 1. pattern="#\w+" B) pattern="#[A-z]\*"

C) pattern= '#[A-z0-9]+' D) None of them

**Answer 6: - C**

1. Which of the following regexp pattern which would extract all the mentions (for example @aakash, @nk\_154) from the below string?

String = **“I would like to thank @akshay\_154, @nitin12, @asthaMishra\_”**

**Import re**

**re.findall(pattern, String)**

* 1. pattern="@[A-z]\*" B) pattern="@[A-z]+" C) pattern= '@[A-z0-9]+' D) pattern= ‘@\w+’

**Answer 7:- D**

1. Which of the following operator is used to mark the start of the string in regular expressions?
   1. \* B) ^

C) & D) None of them

**Answer 8:- B**

1. Which of the following functions match the pattern only at the beginning of the string?
   1. re.match() B) re.search() C) re.findall() D) All of the above

**Answer 9: - A**

1. Which of the following is same as “\*” operator?
   1. {0,} B) {1,}

C) {0,2} D) {3,}

**Answer 10 :- A**

1. Which of the following meta-sequences represent the digits?
   1. \w B) \s

C) \d D) \D

**Answer 11: - D**

1. Which distribution do the frequency of the words in a large document follow?
   1. Normal Distribution B) Zipf Distribution

C) F-Distribution D) Chi-square

**Answer 12: -B**

1. Which of the following words cannot be reduced to their base words by stemming (PorterStemmer, Lancaster etc.) correctly?

A) eating B) worse

C) slept D) running

**Answer 13: -B**

14. Suppose we want to Replace Road with rd.

street = **'21 Ramakrishna Road'**

Which of the following statements can be used in python to do the task?

A) re.sub('Road', 'Rd', street) B) re.sub('Rd', 'Road', street))

C) re.sub(street, 'Rd') D) None of the above

**Answer 14:- A**

15. What will be the output of the following lines of code?

**import re**

**re.search("aabbbbbb", "ab{3,5}?")**

A) <re.match object; span = (1, 5), match = 'abbb'>

B) <re.match object; span = (1, 8), match = 'abbb'>

C) <re.match object; span = (1, 3), match = 'abbb'>

D) <re.match object; span = (1, 7), match = 'abbb'>

**Answer 15:**- **B**