

## Sample Questions for the DC Exam:

### Instructions:

1. Most of the Qs are multiple choice questions (MCQs) and for full credit in MCQs, **check ALL the answer options that apply** or are true. Else, only partial credit may accrue.
2. In questions which have fill-in-the-blanks followed by a MCQ, the order of the answers in each option follows the order of the blanks in the question.
3. Anything written outside allotted space (e.g., a table to be filled in) will not be considered for grading.

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**Q-Set I:** Read code chunk below and answer the Qs that follow.

```
1 system.time({  
2  
3 links <- url_content %>%  
4     html_nodes('a') %>%  
5     html_attr('href')  
6  
7 text <- url_content %>% html_nodes('a') %>% html_text()  
8 })
```

##

Q1. The code above is in \_\_\_\_\_ and does \_\_\_\_\_. (respectively)

- (a) R, API calls
- (b) Python, API calls
- (c) R, web scraping**
- (d) Py, web scraping
- (e) none of these

Q2. Which of the following commands yields a URL object?

- (a) url\_content()

- (b) `html_nodes()`
- (c) `html_attr()`**
- (d) `html_text()`
- (e) none of these

Q3. The following object would contain the target page's html 'page source'

- (a) `system.time`
- (b) `url_content`**
- (b) `links`
- (c) `text`
- (d) `html_nodes()`
- (e) `html_attr()`
- (f) none of these

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Q4: One way to tackle the missing data problem is to \_\_\_\_\_ the data point.

- (a) `depute`
- (b) `impute`**
- (c) `compute`
- (d) `simpute`
- (e) `repute`
- (f) `unmute`
- (g) none of these

Q5: Write whether the following data are Structured (S) data or not (NS):

- (a) Aadhaar fingerprints \_\_NS\_\_
- (b) PAN number \_\_S\_\_
- (c) Address on the ration card \_\_NS\_\_

- (d) Jan dhan account number \_\_ S \_\_
- (e) Scheduled versus actual departure of APSRTC buses \_S\_\_
- (f) date of birth on school certificate \_\_ S \_\_
- (g) photo on the passport \_\_NS\_\_

Q6. Is pdftools package is pipe friendly?

**a) TRUE (ANS)**

b) FALSE

Q7. Which of the following are secondary data sources?

- a) Surveys, industry report and Interview transcripts
- b) Surveys, past research, experimental data
- c) Sales records, interview transcripts, customer reviews (ANS)**
- d) Telephonic interview, sales data, experimental data

Q8. The goal of Exploratory Research is \_\_\_\_\_ & Missapplication of Exploratory techniques incur \_\_\_\_\_ costs.

i) discovery, direct.

**ii) discovery, opportunity.**

iii) resolution, direct.

iv) resolution, opportunity.

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