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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Social Networks (course)**

 Announcements (announcements) **About the Course** (https://swayam.gov.in/nd1_noc20_cs32/preview)

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Unit 3 - Week 1

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 Course
outline

 How does an
NPTEL online
course work?

Week 0

Week 1

 • Lecture 01 -
Introduction (9
min) (unit?
unit=1&lesson=2)

 • Lecture 02 -
Answer to the
puzzle (6 min)
(unit?
unit=1&lesson=3)

 • Lecture 03 -
Introduction to
Python-1 (21
min) (unit?
unit=1&lesson=4)

 • Lecture 04 -
Introduction to
Python-2 (28

Assignment 1

 The due date for submitting this assignment has passed. **Due on 2020-02-12, 23:59 IST.**

Assignment submitted on 2020-01-15, 11:09 IST

 1) If a='Social', b='Networks' then which of the following operation would show 'SocialNetworks' as output? **1 point**

- ☐ a+b
☐ a+"+b
☐ a+""+b
☒ All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

All of the above

 2) What will be the output of the following Python code snippet? **1 point**

```
a= {1:"A",2:"B",3:"C"}
print(a.get(1,4))
```

- ☐ 1
☒ A
☐ 4
☐ Invalid syntax of get() method

Yes, the answer is correct.

Score: 1

Accepted Answers:

A

 3) What will be the output of the following Python code? **1 point**

min) (unit?
unit=1&lesson=5)

- Lecture 05 - Introduction to Networkx-1 (10 min) (unit? unit=1&lesson=6)
- Lecture 06 - Introduction to Networkx-2 (45 min) (unit? unit=1&lesson=7)
- Lecture 07 - Social Networks: The Challenge (4 min) (unit? unit=1&lesson=8)
- Lecture 08 - Google Page Rank (2 min) (unit? unit=1&lesson=9)
- Lecture 09 - Searching in a Network (2 min) (unit? unit=1&lesson=10)
- Lecture 10 - Link Prediction (2 min) (unit? unit=1&lesson=11)
- Lecture 11 - The Contagions (2 min) (unit? unit=1&lesson=12)
- Lecture 12 - Importance of Acquaintances (1 min) (unit? unit=1&lesson=13)
- Lecture 13 - Marketing on Social Networks (2 min) (unit? unit=1&lesson=14)
- Quiz : Assignment 1 (assessment? name=196)

○ Week 1 Feedback (unit? unit=1&lesson=199)

```
a={1:"A",2:"B",3:"C"}
a.clear()
print(a)
```

- ☐ None
- ☐ { None:None, None:None, None:None}
- ☐ {1:None, 2:None, 3:None}
- ☒ {}

Yes, the answer is correct.

Score: 1

Accepted Answers:
{}

4) Which of the following is true for variable names in Python?

1 point

- ☒ Variable names can be of any length
- ☐ All private members must have leading and trailing underscores
- ☐ Underscore and ampersand are the only two special characters allowed
- ☐ All of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:
Variable names can be of any length

5) There are 25 telephones in Wonderland. Is it possible to connect them with wires so that each 1 point telephone is connected with exactly 7 others.

- ☒ Yes
- ☐ No

No, the answer is incorrect.

Score: 0

Accepted Answers:
No

6) Consider any group of two or more people, there are _____ people who have exactly 1 point the same number of friends inside the group.

- ☒ At least two
- ☐ Exactly two
- ☐ At least three
- ☐ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:
At least two

7) The command networkx.info(G) doesn't give the following details about a graph G:

1 point

- ☐ Number of nodes
- ☐ Number of edges
- ☒ Connectedness
- ☐ Type of Graph: Graph/DiGraph

Yes, the answer is correct.

Score: 1

Accepted Answers:

Week 2**Week 3****Week 4****Week 5****Download Videos****Connectedness**

8) In networkx, which function is used to get the neighbors of a node in a graph G?

1 point

- ☐ G.neighboring()
- ☐ G.adjacent()
- ☐ G.adjoining()
- ☒ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

None of the above

9) What is the output of the following code snippet?

1 point

```
import networkx as nx
G = nx.Graph()
G.add_edges_from([(1,2),(3,4),(5,6),(7,8),(2,8),(4,6)])
G.remove_edges_from([(1,2),(3,4),(5,6)])
print(len(G.nodes()))
```

- ☐ 2
- ☐ 4
- ☐ 6
- ☒ None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

*None of the above*10) In the command **networkx.erdos_renyi_graph(a, b)**, the parameters a and b denote the following respectively:**1 point**

- ☐ Number of edges and the probability with which edges are to be placed between every pair of nodes
- ☒ Number of nodes and the probability with which edges are to be placed between every pair of nodes
- ☐ The probability with which edges are to be placed between every pair of nodes and Number of edges
- ☐ Number of edges and Number of nodes

Yes, the answer is correct.

Score: 1

Accepted Answers:

Number of nodes and the probability with which edges are to be placed between every pair of nodes

