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NPTEL

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Courses » Digital and the Everyday: from codes to cloud

Announcements Course Ask a Question Progress Mentor

## Unit 3 - Week 1

### Course outline

How to access the portal

Week 0 - Review Assignment

#### Week 1

- Digital and the Everyday: from codes to cloud
- Introduction to the Winter School
- Socio-algorithmic processes and the Everyday- Part 01
- Socio-algorithmic processes and the Everyday- Part 02
- Socio-algorithmic processes and the Everyday- Part 03
- Quiz : Assignment 1
- Week 1 Feedback

#### Week 2

#### Week 3

#### Week 4

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## Assignment 1

The due date for submitting this assignment has passed. **Due on 2018-02-21, 23:59 IST.**

### Submitted assignment

1) Technology is : 1 point

- a tool
- an experience
- all of the above
- none of the above

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*all of the above*

2) Every technology involves both human and non-human actors. Hence, technology and society co-produce each other. 1 point

- True
- False

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*True*

3) Data and Algorithms are not shaped by social forces 1 point

- True
- False
- Data are but algorithms are not
- Algorithms are but data are not

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*False*

4) Are Algorithms Sociotechnical assemblage? 1 point

- Yes
- No

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Yes*

5) The proof of which of the following mathematical results IS algorithmic in nature? 1 point

- The infinitude of prime numbers.
- The square root of 2 is not a rational number.
- An angle in a plane cannot be exactly trisected using a compass and a straight edge.
- The Halting Problem for Turing machines.
- None of the above.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*None of the above.*

6) Which of these are probably NOT true? 1 point

- Improving the response time of web services is possible with better algorithms.
- Having greater bandwidth is good for improved web service response time.
- Algorithmic bias can be an issue with web services.
- Improved response times always translate to improved web services.
- None of the above.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Improved response times always translate to improved web services.*

7) The "Bystander Syndrome" shows the limitation of which of the following? 1 point

- The Laffer Curve.
- Analytic Reduction.
- Moore's Law.
- Ohm's Law.
- None of the above.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Analytic Reduction.*

8) Which of the following are most likely to be TRUE? 1 point

- Algorithmic bias is unlikely if a service system is technically sound but not financially viable.
- Machine learning can only be used if a service system is technically sound and financially viable, but does not have social acceptance.
- Data hoarding is a problem arising from questionable corporate financial ethics.
- Artificial intelligence has little to do with the mind-brain identity thesis.
- None of the above.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Data hoarding is a problem arising from questionable corporate financial ethics.*

9) Which of the following problematic software agents or bots would NOT be regarded as socially unacceptable? 1 point

- One that assumes all humans are white.
- One that uses male pronouns for all users.
- One that presumes that all users are skilled at using computers.
- One that does not offer appropriate spelling and grammar customizations.
- None of the above.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*One that presumes that all users are skilled at using computers.*

10) Which of these is LEAST likely to be a solution to the problem of unfair algorithmic arbitrage of culture? **1 point**

- More access to computing resources by poorer sections of society.
- Making recommendation engines open source.
- Extensive digitization and availability of texts from all cultures.
- Choice of cultural contexts and parameters for programs by appropriate majority voting.
- None of the above.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Choice of cultural contexts and parameters for programs by appropriate majority voting.*

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