JIMMA UNIVERSITY

ANTHROPOLOGY MID EXAM 2015

Part 1: Write True if the statement is correct and write False if the statement is incorrect (1 points each).

1. JSON and HTML are typical examples of semi-structured data type.

2. Big data is a multi-disciplinary field which involves extracting insights from different types of data.

3. Artificial Intelligent machine needs to be pre-programmed to perform a task.

4. Any third industrial revolution is known as digital revolution.

5.Cloud computing solutions are expensive than the actual overall infrastructure set up for the IT services.

Part II: For the following questions, choose the best answer from the given alternatives. (1 points each).

1. One of the following contains files that uses tags to separate semantic elements within the data

A. Structured data

B. Semi-structured data

C. Meta data

D.Unstructured Data

2. One is not component of Hadoop.

A. Data management
C. Data processing
B. Data access
D. Data scalability

3. Which of the following changed fundamentally and transfer the world around us into modern society?

A. Steam Engine

B. The age of science and mass production

C. Digital technology

D. All

4. Assume you want to store your name on a computer, which of the following data type you could use?

A. Character
C. Alpha-Numeric
B. Integer
D. Boolean

5. Which one of the following Hadoop ecosystems is used to store data in distributed file system?

A. MapReduce
C. HBASE
B. Spark
D. None

6. Which of the following is true about applications of data science?

A. Used to detect fraud
C. Assists in taking better decision
B. Used to build intelligent system
D. All

7. The first intelligent humanoid robot which was built in Japan is named as:

A. JAP-ROBT-1
C. SOFIYA
B. WABOT-1
D. ELIZZA

8. Which of the followings is written in the correct order?

A. Artificial Intelligence→ Deep Learning→ Machine Learning
B. Machine Learning→ Artificial Intelligence → Deep Learning
C. Deep Learning Artificial Intelligence → Machine Learning
D. Artificial Intelligence → Machine Learning→ Deep Learning

9. Which one of the followings is unique?

A. Fishery
C. Teaching
B. Farming
D. Mining

10. Artificial intelligent machine works only the task they are programmed for. Which of the following limitations of artificial intelligent best describes it?

A. No feeling
C .No original creativity
B. Can't think out of box
D. High cost

Part III: Fill the provided blank space with appropriate term (1.5 points each)

1._____is component of Al that involves deriving logical conclusion and making predictions from available knowledge, facts, and beliefs.

2._____is a collection of computers, servers, mainframes, network devices, peripherals, or other devices connected to one another to allow the sharing of data.

3. A collection of data sets that is complex and large enough such that it is difficult to process them using on-hand database management tools is known as_____.

4._____ is an active management of data over its life cycle to ensure it meets the necessary data quality requirements for its effective usage.

Part IV: Answer the following questions accordingly

1. Why is a computer referred to as a programmable device? Explain in details. (2 points)

2. List and discuss the ways by which humans interact to machines or computers? (3 points)

3. List and describe the four basic components in digital system (2 points)

4. Derartu, one of the programmers at Google Company, uses voice data to predict human emotions using Natural Language Processing. Given this scenario, identify

the data type in terms of data analytics perspective and list **at least three** possible metadata for this particular data type. (2 points)

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