

TOP STUDENTS

Emerging Technology mid Exam for First Year Student

Name: _____

ID: _____

Section: _____

Part I: write True or False for the following questions.

1. The goal of HCI is to improve the interaction between machine and computers.
2. From a data analytics point of view, a data type is simply an attribute of data that tells the compiler or interpreter how the programmer intends to use the data.
3. Super AI is a type of intelligence that could perform any intellectual task with efficiency like a human.

Part II: Choose the best answer for the following questions.

1. Which one of the following is not sample application of **Commuting**?
A. Smart Email Categorization
B. Ridesharing Apps Like Uber and Lyft
C. Google's AI-Powered Predictions
D. Commercial Flights Use an AI Autopilot
2. All of the following are influencers of artificial intelligence except
A. No Original Creativity
B. Advancements in computer processing speed and new chip architectures
C. Structured data versus unstructured data
D. None
3. Which one of the following is characteristics of theory of mind AI type?
A. It should understand human emotions, people, beliefs, and be able to interact socially like humans.
B. It is the future of Artificial Intelligence.
C. Such machines will be more intelligent than the human intellect.
D. It can store past experiences or some data for a short period of time.
4. One of the following **Isn't** somehow the advantage of artificial intelligence.
A. High Accuracy with fewer errors.
B. Useful for risky areas.
C. AI machines are highly reliable and can perform the same activity with great precision several times.
D. Increase dependence on machines.
5. Which one of the following **is not** the aim of artificial intelligence?
A. To carry out a cyber-attack via an artificial intelligence algorithm
B. Replicate human intelligence
C. Building a machine which can perform tasks that requires human intelligence
D. A and C
6. Intelligence is made of
A. Reasoning
B. Problem Solving
C. Linguistic Ability
D. All
E. All except C
7. After you use social media and give comments what sort of data are you making?
A. Structured Data
B. Unstructured Data
C. Semi Structured
D. Data Type

8. The additional information that we get about a data is
 - A. Meta data
 - B. Structured data
 - C. Valuable data
 - D. Semi structured data
9. Which one of the following is true about the characteristics of big data?
 - A. Veracity is containing different types of data.
 - B. Big data is characterized by velocity because it is always streaming in motion.
 - C. Volume refers to massive amount of structured data.
 - D. All
10. For which of the following will you use integer data type?
 - A. Height
 - B. Age in years
 - C. For all mathematics operation on integers
 - D. B and C
11. What data type would you use to determine if one number is greater or less than another?
 - A. String
 - B. Integer
 - C. Boolean
 - D. Float
12. Which one can be used by decision makers for taking actions?
 - A. Data
 - B. Information
 - C. Unanalyzed facts
 - D. All
13. The re-structuring or re-ordering of data by people or machines to increase their usefulness and add values for a particular purpose
 - A. Data value chain
 - B. Big data
 - C. Data processing
 - D. Input
14. Which one of the following is considered as the icon of industrial revolution 4.0?
 - A. Steam engine
 - B. Electricity
 - C. Internet
 - D. None
15. Which one of the following is not among future trends of emerging technologies?
 - A. WAN
 - B. Block chain
 - C. Chat bot
 - D. AI
16. Why computer is programmable device?
 - A. Because we can play audio file using it
 - B. because it follows set of instructions
 - C. because we can browse internet using it
 - D. None
17. Why HCI?
 - A. Because it encourages people
 - B. Because it reduces risks
 - C. Because it leads for uncertainty
 - D. A and B

Part III: Write precise and clear answers for the following questions.

1. Write at least four disciplines contributing for HCI (Cpts.)
2. How do we map human thinking to artificial intelligence components? Explain briefly. (3 Points)
3. List and describe data value chain (3 points)
4. Identify and explain the various types of AI based on their capabilities. (2 points)