**Note : Ivi Prepare avvandi 90% indulo nunde ochinay**

**44517 Exam 1: Study Guide**

1. Given a scenario, be able to write the examples of 5Vs. Ensure your answer to be specific to the scenario.
2. Be able to the know the terms of the memory in bytes (Ex: Is Yota bytes greater than peta bytes?)
3. Define various terms related to Big Data
   1. IoT
   2. CPS
   3. Data Streaming
   4. Other terms
4. What are the various applications of Big Data in different industries?
5. What are the disadvantages of relational databases?
6. What are the differences between centralized database and distributed database?
7. What are distributed databases? Give some examples.
8. Be able to know the difference between homogenous and heterogenous distributed databases.
9. What is the difference between software engineering and data engineering?
10. What are the primary job responsibilities of data engineer?
11. What is your favorite job title in data science related field? Why?
12. What are the advantages and disadvantages of Hadoop?
13. What are the two questions you need answer for a Map-Reduce problem?
14. Given a scenario, explain the different stages to solve Map-Reduce problem.
15. Be able to know how to write source code for a Map-Reduce problem.
16. Given a source code snippet, be able know what the functionality of the code. (Similar to our code comprehension activities.)