

## QUIZ 1 STUDY GUIDE

**Data** is described objectively without interpretation.

**Information** is use of the data that has been interpreted, organized, or structured.

**Knowledge** is synthesized information so that relationships can be made about the information and formalized.

**Wisdom** is the appropriate use of knowledge to manage and solve human problems.

- **What is Nursing Informatics?**

- Concentrates on finding ways to:
  1. improve information management and communication to improve efficiency,
  2. Reduce costs
  3. Enhance client safety and quality of care

- **Foundation of Knowledge Model**

- Knowledge is used to meet needs of health care delivery systems, org, PTs, nurses
- At its base the model has bits, bytes (comp term for chunks of information), data, and info in random representation
- Each person experiences the environment and learns by acquiring, processing, generating, and disseminating knowledge.

- **Data integrity- threats and human error**

- Integrity - refers to whole, complete, correct, consistent data
- Data integrity can be compromised thru human errors, viruses, worms, or other computer bugs, hardware failures, crashes transmission errors, or hackers.
- Info tech help decrease errors by putting into place safeguards; backing up files, error detection for transmissions, user interfaces that help ppl enter data correctly

- **Cognitive Informatics**

- Examines how humans work (human information processing) with computers so better information technology systems can be built.

- **Artificial Intelligence**- what is it? What can it do?

- Artificial intelligence (AI) is a mechanical thought process based on computer science. It uses a computer system and clinical information systems (which include software, hardware, and other equipment) to be able to perform tasks that ordinarily require human intelligence.