Review questions 1 – Group 15

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1. **Why is it necessary to understand the various computing paradigms?**

**( Phú)**

Because each various computing paradigms have different advantages and disadvantages. The infrastructure that makes this need to operate the appliance via the Internet.

1. **Compare grid computing with electric power grid? (Phú)**

Grid computing and electric power grid are two different concepts. Grid computing is the use of widely distributed computer resources to reach a common goal. It can be thought of as a distributed system with non-interactive workloads that involve many files. On the other hand, an electric power grid is an interconnected network for delivering electricity from suppliers to consumers. It consists of generating stations that produce electrical power, high voltage transmission lines that carry power from distant sources to demand centers, and distribution lines that connect individual customers.

1. **Will mobile computing play a dominant role in the future? Discuss (Bình)**

* Shopping online – making decisions about what they want and who to buy it from.
* Navigating to businesses – like the previously unknown business that popped up in a local search.
* Buying stuff – and paying for it by touching their index finger to one tiny button on the screen. It’s called “One touch” and customers l-u-u-u-v it. Whether they know the business or not, they can one-touch with PayPal and Amazon, plus other preloaded credit/debit financial sources.

1. **How are distributed computing and network computing different or similar? (Long)**

* A computer network refers to the set of autonomous computer systems as well as other devices that are connected together mainly for exchanging data and information along with other common resources. On the other hand, distributed computing is the method of making multiple computers work together to solve a common problem
* They share the same benefits such as reliability, cheaper than centralized systems, and have larger processing capabilities

1. **How may nanocomputing shape future devices? ( Chung)**
   * + The simulation of drug response that is more efficient than current medical trials. This will lead to the faster development of new drugs.
     + Greater understanding of disease development through improved computational models.
     + Improved transportation logistics across the world.
     + Improved financial modeling to avoid economic downturns.
     + The development of driverless cars with the ability to process real world driving problems faster than human drivers.
     + The rapid processing of large amounts of astronomical data for discovering new planets.
     + The production of quantum simulations for modeling the behavior of subatomic particles without the need for creating the extreme conditions necessary for observing these particles.
     + Improved machine learning for artificial intelligence progression.