

1. What are the subsystems of the Neumann computer models? (6 points)

The subsystems are the memory, arithmetic/logic unit, control unit, and input/output

2. What are the functions of the three buses that connect the CPU with memory? (8 points)

The data bus is used to transfer data to and from memory.

The address bus allows access to particular words in memory.

The control bus is used to control the operations of the CPU and memory.

4. What are the components of an operating system? (8 points)

The components of an operating system are: memory manager, process manager, device manager, file manager, and the user interface

5. Name the layers of the OSI(Open Systems Interconnection) model. (8 points)

The seven layers of the OSI model are: physical, data link, network, transport, session, presentation, and application

6. What is meant by the software life cycle? (8 points)

Software goes through a cycle of repeating phases until it becomes obsolete.

2. Name five types of data that a computer can process. (6 points)

Text, numbers, images, audio, and video

4. Define the term *overflow*.

Overflow happens when the result of an arithmetic operation is outside the range of possible values for the bit allocation being used.

5. What is the USB controller? (6 points)

The USB (universal serial bus) controller is a serial controller used to

communicate with slower devices. It also supplies power to the devices.

6. What are the four phases in software development? (8 points)

Analysis, design, implementation, and testing

7. Name the layers of the TCP/IP protocol suite. (7 points)

The layers of the TCP/IP protocol suite are: network, transport, and application.

8. Define software engineering.

Software engineering is the establishment and use of sound engineering methods and principles to obtain reliable software that works on real machines.

9. Name the logical binary operation.?

The logical binary operations are: AND, OR, and XOR.

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